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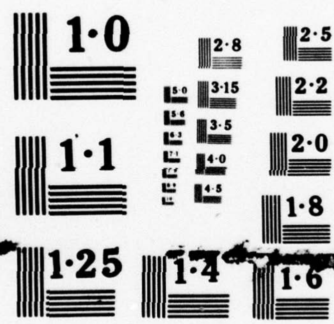
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INTERACTIONAL AERODYNAMICS OF THE SINGLE ROTOR HELICOPTER CONFIGURATION

VOLUME VI-C - One-Third Octave Band Spectrograms of Wake Single Film Data, Hubcaps and Air Ejectors

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Volume VI of an eight-volume report.
Volume VI is comprised of three sub-volumes (A thru C)

19. KEY WORDS (Continue on reverse side if necessary and identify by block number)

Wake	Interaction	Empennage
Flow	Aerodynamic Interaction	Flow Modifier
Frequency	Flow Environment	Powered Model
Spectrum	Configuration	Hub Cap

20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

This is the third of the three volumes of Volume VI containing one-third octave band spectrographs of the model helicopter hub/rotor wake velocities derived from the single-film velocity transducer data. This sub-volume deals with the effects of hub caps and air ejector systems on wake velocities.

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PREFACE

The entire report describing the investigation of INTERACTIONAL AERODYNAMICS OF THE SINGLE-ROTOR HELICOPTER CONFIGURATION comprises eight numbered volumes bound as 33 separate documents. The complete list of these documents is as follows:

Volume I, Final Report

Volume II, Harmonic Analyses of Airframe Surface Pressure Data
- A – Runs 7-14, Forward Section
- B – Runs 7-14, Mid Section
- C – Runs 7-14, Aft Section
- D – Runs 15-22, Forward Section
- E – Runs 15-22, Mid Section
- F – Runs 15-22, Aft Section
- G – Runs 23-33, Forward Section
- H – Runs 23-33, Mid Section
- I – Runs 23-33, Aft Section

Volume III, Flow Angle and Velocity Wake Profiles in Low-Frequency Band
- A – Basic Investigations and Hubcap Variations
- B – Air Ejector Systems and Other Devices

Volume IV, One-Third Octave Band Spectrograms of Wake Split-Film Data
- A – Buildup to Baseline
- B – Basic Configuration Wake Explorations
- C – Solid Hubcaps
- D – Open Hubcaps
- E – Air Ejectors
- F – Air Ejectors With Hubcaps; Wings
- G – Fairings and Surface Devices

Volume V, Harmonic Analyses of Hub Wake

Volume VI, One-Third Octave Band Spectrograms of Wake Single Film Data
- A – Buildup to Baseline
- B – Basic Configuration Wake Exploration
- C – Hubcaps and Air Ejectors

This volume is

Volume VII, Frequency Analyses of Wake Split-Film Data
- A – Buildup to Baseline
- B – Basic Configuration Wake Explorations
- C – Solid Hubcaps

D – Open Hubcaps
E – Air Ejectors
F – Air Ejectors With Hubcaps; Wings
G – Fairings and Surface Devices

Volume VIII, Frequency Analyses of Wake Single Film Data
A – Buildup to Baseline
B – Basic Configuration Wake Exploration
C – Hubcaps and Air Ejectors

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INTRODUCTION

Volume VI presents spectrograms of the six velocity measurements from the single film transducers which were located outboard on the wake rake to the left and right of the split film transducers. These plots are similar to those of Volume IV E, being machine plotted spectrograms in the one-third octave band format. They relate directly to the standard spectrograms that appear in Volume VIII for the same set of runs.

The sub-volumes of Volume VI display data derived from the following test runs:

Volume VI-A - 149, 150, 160, 156, 158, 159
Volume VI-B - 111 -119, 121
Volume VI-C - 135, 136, 188, 211, 168, 167, 194, 161, 154, 172, 174, 176, 203, 205, 197

The runs follow the order of the logical arrangement of the Outline of Wake Investigations, Table 1, from which they have been selected. The Table I outline and other material is included for reference and as context to the work of each sub-volume. Table 2, the List of Test Runs, arranges the runs in numerical order and gives pertinent text parameters.

The Index of Rake Positions, Table 3, lists the hot film transducer rake positions in the model coordinate system for each run and its test points. The main feature of Table 3 is the indexing of the test point number to the model water line station and butt line as it varied from run to run. The table groups the runs as they shared the indexing correspondence of point with position. It is emphasized that the runs in a group do not necessarily all share the same number of test points but they do have same correspondence within their respective ranges of test points.

The orientation of the rake is shown pictorially in Figures 1 through 6 for the various test runs. Figure 7 presents a scaled drawing of the model with reference to the three-axis coordinate system. Table 4 lists the center frequency and the upper and lower band limits for each of the numbered one-third octave bands.

TABLE 1

OUTLINE OF WAKE INVESTIGATIONS

Description	Configuration Code	Run No.	Base-line
Build-up to Baseline			
1. Nacelles removed	$K_{13}+H_1-N$	149	150
2. Blades off, rotating hub	$K_{13}-M+H_{1.0}$	160	156
3. " " , non-rotating hub	$K_{13}-M+H_{1.0}$	158	156
4. " " , hub off	$K_{13}-M-H_{1.0}$	159	156
Basic Configuration			
1. Wake Explorations near Empennage			
(a) 15" Long. + traverse at T/R C.L.	K_{11}	111	---
(b) 9" Vert. + " above T/R "	"	112	---
(c) 2" " " in vortex	"	113	---
(d) 8" " " (continue 112)	"	114	---
(e) 13" " " behind stab.	"	115	---
(f) Lateral traverse, left stab. (One T.P. only)	"	116	---
(g) Same continued	"	117	---
(h) Same continued (One T.P. only)	"	118	---
(i) Lateral traverse right stab.	"	119	---
(j) T/R effect on wake	$K_{11}+T_2^0$	121	115
2. Climb/Descent Studies			
(a) Climb 900 FPM	K_{11}	135	---
(b) Descent 800 FPM	"	136	---
Effect Of Hub Caps			
1. Solid Caps on Canister			
(a) 7.6" diam. 2.17" ht. soft Pitch Arms	$K_{11}-H_{1.0}+H_{1.2}$	137	136
(b) 7.6" diam. 2.17" ht. stiff Pitch Arms	$K_{13}+H_{1.2}$	153	156
(b) 7.6" diam. 2.45" ht. flt. test config.	$K_{13}+H_{1.2.1}+I_1$ $+E_{1.0}$	207	188

TABLE 1 (CONTINUED)			
OUTLINE OF WAKE INVESTIGATIONS			
Description	Configuration Code*	Run No.	Base-line
Effect of Hub Caps (Continued)			
2. Solid Caps Raised Above Canister			
(a) 7.6" diam. 2.45" ht. 70" depth, .55 gap	$H_{1.2.2}+I_1+E_{1.0}$	208	188
(b) 10.0" diam. 3.25" ht. 1.55" depth, .50" gap	$H_{1.8.1}+I_1+E_{1.0}$	189	188
(c) 10.0" diam. 4.125" ht. 2.05" depth, .875" gap	$H_{1.8.2}+I_1+E_{1.0}$	190	188
(d) Repeat of 189	" " "	210	188
3. Open Caps Without Underbody			
(a) 10.0" diam. 1.25" gap, blades	$H_{1.0.2}+I_1+E_{1.0}$	193	188/166
(b) " " " gap, no blades	$H_{1.0.1}-M$	166	158
(c) " " 2.05" gap, blades	$H_{1.14.1}+I_1+E_{1.0}$	211	188
(d) " " 1.75" gap, no blades	$H_{1.0.1}-M$	165	158
(e) " " 1.87" gap, blades	$H_{1.0.3}+I_1+E_{1.0}$	191	188
(f) 16" diam. 2.00" gap, blades	$H_{1.7.1}$	168	156/167
(g) " " " gap, no blades	$H_{1.7.1}-M$	167	158
(h) " " 4.00" gap, blades	$H_{1.7.2}$	169	156
4. Open Caps with Underbody			
(a) 7.6" diam. 1.25" gap	$H_{1.11.1}+I_2+E_{1.0}$	194	188
(b) " " " "	$H_{1.11.1}+I_2+E_{4.0}$	198	188
(c) " " " " center post	$H_{1.11.2}+I_2$	202	194
(d) 10.0" diam. .5" gap, no blades	$H_{1.5.1}-M$	164	158
(e) " " 1.25" gap, no blades	$H_{1.5.2}-M$	161	158
(f) " " 2.0" gap, no blades	$H_{1.5.4}-M$	163	158
(g) " " 4.0" gap, no blades	$H_{1.5.3}-M$	162	158
(h) " " 1.25" gap	$H_{1.5.2}$	154	156/161

*Basic Code is K13.

TABLE 1 (CONTINUED)

OUTLINE OF WAKE INVESTIGATIONS

Description	Configuration Code*	Run No.	Base-line
5. <u>Miscellaneous Hub Covers</u>			
(a) Hub fairing 16" diam.	$H_{1.3}$	151	150
(b) Wham-O-Frisbee 10" diam.	$H_{1.9.0}+E_{1.2}$	182	181
(c) Fab. glass Frisbee 16" diam.	$H_{1.9.1}+E_{1.2}$	183	181
<u>Effect of Air Ejectors</u>			
1. Basic system no blowing	$H_{1.0}+E_{1.0}$	172	156
2. " " 40 psi	" "	173	156/172
3. " " 150 psi	" "	174	156/172
4. Wide chord shroud 40 psi	$H_{1.0}+E_{2.5.1}$	175	156/173
5. Wide " " 150 psi	" "	176	156/174
6. W/C shroud w. lip 40 psi	$H_{1.0}+E_{3.5.2}$	184	156/173
7. Same Contoured Parallel 150 psi	$H_{1.0}+E_{3.5.4}$	187	156/174
8. Bifurcated duct 0 psi	$H_{1.0}+E_{5.0}$	203	156
9. " " 40 psi	" "	204	156/203
10. " " 150 psi	" "	205	156/203
<u>Air Ejectors with Open Hub Caps with Underbodies</u>			
1. 7.6" diam. 1.25" gap, 0 psi	$H_{1.11.1}+I_2+E_{1.0}$	194	188/172
2. " " " " 20 psi	" " "	195	188
3. " " " " 40 psi	" " "	196	188/173
4. " " " " 150 psi	" " "	197	188/174
5. " " " " 0 psi	$H_{1.11.1}+I_2+E_{4.0}$	198	188/194
6. " " " " 40 psi	" " "	199	188/196
7. " " " " 150 psi	" " "	200	188/196
8. Same with center post	$H_{1.11.2}+I_2+E_{4.6}$	201	188/200
9. 10.0" diam. 2.0" gap wide ch'd. shroud (150 psi)	$H_{1.5.4}+E_{2.5.1}$	177	156/176
<u>Effect of Wings and Misc.</u>			
1. Wings			
(a) Nacelle-mounted stub wing	$H_{1.0}+W_{1.0}+E_{1.1}$	178	181
(b) Single slotted flapped wing	$H_{1.0}+W_{3.0}+E_{1.0}$	180	181
(c) Dougle slotted flapped wing	$H_{1.0}+W_{2.0}+E_{1.0}$	179	181
(d) Boom-mounted stub wing	$H_{1.0}+W_{4.0}$	186	156

*Basic Code is K13.

TABLE 1 (CONTINUED)

OUTLINE OF WAKE INVESTIGATIONS

Description	Configuration Code*	Run No.	Base-line
2. Crown Fairings			
(a) Flat top behind shaft	$K_{11}+D_1$	140	138
(b) Round top behind shaft	$K_{11}+D_2$	141	138
(c) Extended flat top fairing	H_1+D_4	170	156
(d) Flat top + 16" cap, 4" gap	$H_{1\cdot 7\cdot 2}+D_4$	171	170
(e) Forward fairing/nacelle fairing	$P_{1\cdot 0}$	152	156
3. Surface Devices			
(a) Vortex generators	$K_{11}+VG_{2.1}$	139	138
(b) Guidevane between nacelles	$K_{11}+FV_1$	142	138
(c) Longitudinal strakes	$H_{i\cdot 5.3}+S_4$	155	156
(d) 14% porosity spoiler	$K_{11}+X_1$	143	138

*Basic Code is K13 unless noted otherwise.

TABLE 2

LIST OF TEST RUNS

BASIC INVESTIGATIONS OF THE HUB WAKE

RUN NO.	CONFIGURATION/CONDITION	V_{TUN} KNOTS	RPM MR/TR	DISK LDG. psf	MODEL ANGLES $\alpha°$	MODEL ANGLES $\psi°$	MR HT. h/d	TAIL ROTOR
111	K_{11}/15" Long. wake traverse at TR center line	80	1433/0	8	6.0	-2.0	∞	Off
112	" /9" Vert. wake traverse above TR center line	"	"	"	"	"	"	"
113	" /2" Vert traverse through MR vortex	"	"	"	"	"	"	"
114	" /8" Vert. traverse below TR center line	"	"	"	"	"	"	"
115	" /13" Vert. traverse behind stabilizer	"	"	"	"	"	"	"
116	" /Lateral traverse - left stabilizer	"	"	"	"	"	"	"
117	" /116 continued	"	"	"	"	"	"	"
118	" /116 continued	"	"	"	"	"	"	"
119	" /Lateral traverse - right stabilizer	"	"	"	"	"	"	"
121	$K_{11}+T_2$/Effect of tail rotor flow on wake	"	1433/ 4500	"	"	"	"	On
135	K_{11}/Wake in 900 fpm climb	"	"	"	-6.0	-4.5	"	Off
136	" /Wake in 800 fpm descent	"	"	"	6.0	-2.0	"	"

TABLE 2 (CONTINUED)

LIST OF TEST RUNS

EVALUATION OF WAKE-ALTERING DEVICES

RUN NO.	CONFIGURATION/CONDITION	V_{TUN} KNOTS	RPM MR/TR	DISK LDG. psf	MODEL ANGLES α°	MODEL ANGLES ψ°	MR HT. h/d	TAIL ROTOR
137	$K_{11}-H_{1.0}+H_{1.2}$/Effect of 7.6 inch diam. solid hub cap	80	1433/0	8	6	-3.8	∞	Off
138	K_{11}/Repeat of base run	"	"	"	"	"	"	"
139	$K_{11}+VG_{2.1}$/Effect of vortex generators on aft crown	"	"	"	"	"	"	"
140	$K_{11}+D_1$/Flat-topped "doghouse" fairing on aft crown	"	"	"	"	"	"	"
141	$K_{11}+D_2$/Rounded-top fairing	"	"	"	"	"	"	"
142	$K_{11}+FV_1$/Deflection vane on crown between nacelles	"	"	"	"	"	"	"
143	$K_{11}+X_1$/Variable porosity spoiler	"	"	"	"	"	"	"
149	$K_{13}+H_1-N_1$/Effect of nacelles off also add stiff pitch arms (K_{13})	60	1075/0	4.5	"	"	"	"
150	$K_{13}+H_1$/60 knot baseline	"	"	"	"	"	"	"
151	$K_{13}+H_{1.3}$/16 inch diam. helmet fairing	"	"	"	"	"	"	"
152	$K_{13}+P_{1.0}$/Pylon and intake fairings	80	1433/0	8	"	"	"	"
153	$K_{13}+H_{1.2}$/Repeat 137 with K_{13} pitch arms	"	"	"	"	"	"	"

TABLE 2 (CONTINUED)

LIST OF TEST RUNS

EVALUATION OF WAKE-ALTERING DEVICES

RUN NO.	CONFIGURATION/CONDITION	V_{TUN} KNOTS	RPM MR/TR	DISK LDG. psf	MODEL ANGLES		MR HT.	TAIL ROTOR
					α°	ψ°	h/d	
154	$K_{13}+H_{1.5.2}$/10" open hub cap, 7" underbody, 1.25" gap	80	1433/0	8	6	-3.8	∞	Off
155	$K_{13}+H_{1.5.2}+S_4$/Same as 154 except strakes on aft crown	"	"	"	"	"	"	"
156	$K_{13}+H_{1.0}$/Baseline with K_{13}, i.e., stiff pitch arms	"	"	"	"	"	"	"
158	$K_{13}-M+H_{1.0}$/Wake studies with blades off, hub not rotating	"	0/0	"	"	"	"	"
159	$K_{13}-M-H_{1.0}$/Wake studies with hub off	"	"	"	"	"	"	"
160	$K_{13}-M+H_{1.0}$/Same as 158 except hub is rotating	"	1433/0	"	"	"	"	"
161	$K_{13}-M+H_{1.5.2}$/Repeat of 154 without blades	"	0/0	"	"	"	"	"
162	$K_{13}-M+H_{1.5.3}$/Same as 161 except 4" gap	"	"	"	"	"	"	"
163	$K_{13}-M+H_{1.5.4}$/Same as 161 except 2" gap	"	"	"	"	"	"	"
164	$K_{13}-M+H_{1.5.1}$/Same as 161 except 0.5" gap	"	"	"	"	"	"	"
165	$K_{13}-M+H_{1.0.1}$/10" open hub cap, no underbody, same cap vert. position as Run 154	"	"	"	"	"	"	"
166	$K_{13}-M+H_{1.0.2}$/Same as 165 with cap lowered by 0.5"	"	"	"	"	"	"	"

TABLE 2 (CONTINUED)

LIST OF TEST RUNS

EVALUATION OF WAKE-ALTERING DEVICES

RUN NO.	CONFIGURATION/CONDITION	V_{TUN} KNOTS	RPM MR/TR	DISK LDG. psf	MODEL ANGLES $\alpha°$	$\psi°$	MR HT. h/d	TAIL ROTOR
167	$K_{13}-M+H_{1.7.1}$/16" open cap, no underbody, 2" gap	80	0/0	8	6	-3.8	∞	Off
168	$K_{13}+H_{1.7.1}$/Blades on, same cap config. as 167	"	1433/0	"	"	"	"	"
169	$K_{13}+H_{1.7.2}$/16" open cap, no underbody, 4" gap	"	"	"	"	"	"	"
170	$K_{13}+H_{1.0}+D_{4.0}$/Extended flat top fairing on aft crown	"	"	"	"	"	"	"
171	$K_{13}+H_{1.7.2}+D_{4.0}$/Same fairing as 170, same cap as 169	"	"	"	"	"	"	"
172	$K_{13}+H_{1.0}+E_{1.0}$(0psi)/Basic air ejector zero blowing baseline	"	"	"	"	"	"	"
173	$K_{13}+H_{1.0}+E_{1.0}$(40 psi)/Same as 172 with 40 psi supply	"	"	"	"	"	"	"
174	$K_{13}+H_{1.0}+E_{1.0}$(150 psi)/Same as 172 with 150 psi supply	"	"	"	"	"	"	"
175	$K_{13}+H_{1.0}+E_{2.5.1}$(40 psi)/Ejector with wide chord shroud at 40 psi	"	"	"	"	"	"	"
176	$K_{13}+H_{1.0}+E_{2.5.1}$(150 psi)/Same as 174 with 150 psi supply	"	"	"	"	"	"	"
177	$K_{13}+H_{1.5.4}+E_{2.5.1}$(150 psi)/Same as 176 with 10" cap like 163	"	"	"	"	"	"	"
178	$K_{13}+H_{1.0}+W_{1.0}+E_{1.1}$(0 psi)/Nacelle mounted wing	"	"	"	"	"	"	"

TABLE 2 (CONTINUED)

LIST OF TEST RUNS

EVALUATION OF WAKE-ALTERING DEVICES

RUN NO.	CONFIGURATION/CONDITION	V_{TUN} KNOTS	RPM MR/TR	DISK LDG. psf	MODEL ANGLES $\alpha°$	MODEL ANGLES $\psi°$	MR HT. h/d	TAIL ROTOR
179	$K_{13}+H_{1.0}+W_{2.0}+E_{1.0}$ (0 psi)/Double slotted flapped wing	80	1433/0	8	6	-3.8	∞	Off
180	$K_{13}+H_{1.0}+W_{3.0}+E_{1.0}$ (0 psi)/Single slotted flapped wing	"	"	"	"	"	"	"
181	$K_{13}+H_{1.0}+E_{1.2}$ (0 psi)/Baseline with ejector tube moved aft	"	"	"	"	"	"	"
182	$K_{13}+H_{1.9.0}+E_{1.2}$ (0 psi)/Standard 10" frisbee	"	"	"	"	"	"	"
183	$K_{13}+H_{1.9.1}+E_{1.2}$ (0 psi)/16" fabricated frisbee	"	"	"	"	"	"	"
184	$K_{13}+H_{1.0}+E_{3.5.2}$ (40 psi)/Wide chord with lip at 40 psi	"	"	"	"	"	"	"
185	$K_{13}+H_{1.0}+E_{3.5.2}$ (150 psi)/Same as 184 with 150 psi air	"	"	"	"	"	"	"
186	$K_{13}+H_{1.0}+W_{4.0}$/Boom mounted stub wing	"	"	"	"	"	"	"
187	$K_{13}+H_{1.0}+E_{3.5.4}$ (150 psi)/Like 185 with modified shroud	"	"	"	"	"	"	"
188	$K_{13}+H_{1.0}+I_1+E_{1.0}$ (0 psi)/Baseline with I_1 instr. ring	"	"	"	"	"	"	"
189	$K_{13}+H_{1.8.1}+I_1+E_{1.0}$ (0 psi)/Solid cap, 10" diam. 3.25" height	"	"	"	"	"	"	"
190	$K_{13}+H_{1.8.2}+I_1+E_{1.0}$ (0 psi)/Same as 190 except + 4.12" height	"	"	"	"	"	"	"

TABLE 2 (CONTINUED)

LIST OF TEST RUNS

EVALUATION OF WAKE-ALTERING DEVICES

RUN NO.	CONFIGURATION/CONDITION	V_{TUN} KNOTS	RPM MR/TR	DISK LDG. psf	MODEL ANGLES		MR HT.	TAIL ROTOR
					$\alpha°$	$\psi°$	h/d	
191	$K_{13}+H_{1.0.2}+I_1+E_{1.0}$ (0 psi)/10" cap, no underbody, 1.87" gap	80	1433/0	8	6	-3.8	∞	Off
193	$K_{13}+H_{1.0.2}+I_1+E_{1.0}$ (0 psi)/10" cap, no underbody, 1.25" gap	"	"	"	"	"	"	"
194	$K_{13}+H_{1.11.1}+I_2+E_{1.0}$(0 psi)/7.6" cap, underbody, 1.25" gap	"	"	"	"	"	"	"
195	$K_{13}+H_{1.11.1}+I_2+E_{1.0}$(20 psi)/Same as 194 with 20 psi air	"	"	"	"	"	"	"
196	$K_{13}+H_{1.11.1}+I_2+E_{1.0}$(40 psi)/Same as 194 with 40 psi air	"	"	"	"	"	"	"
197	$K_{13}+H_{1.11.1}+I_2+E_{1.0}$(150 psi)/Same as 194 with 150 psi air	"	"	"	"	"	"	"
198	$K_{13}+H_{1.11.1}+I_2+E_{4.0}$ (0 psi)/Same as 194 except blowing tube 2" aft	"	"	"	"	"	"	"
199	$K_{13}+H_{1.11.1}+I_2+E_{4.0}$ (40 psi)/Same as 198 with 40 psi air	"	"	"	"	"	"	"
200	$K_{13}+H_{1.11.1}+I_2+E_{4.0}$ (150 psi)/Same as 198 with 150 psi air	"	"	"	"	"	"	"
201	$K_{13}+H_{1.11.2}+I_2+E_{4.0}$ (150 psi)/Same as 200 except center support cap	"	"	"	"	"	"	"
202	$K_{13}+H_{1.11.2}+I_2$/Baseline with I_2 and no blowing tube	"	"	"	"	"	"	"
203	$K_{13}+H_{1.0}+E_{5.0}$(0 psi)/Bifurcated air duct baseline	"	"	"	"	"	"	"

TABLE 2 (CONTINUED)

LIST OF TEST RUNS

EVALUATION OF WAKE-ALTERING DEVICES

RUN NO.	CONFIGURATION/CONDITION	V_{TUN} KNOTS	RPM MR/TR	DISK LDG. psf	MODEL ANGLES		MR HT.	TAIL ROTOR
					α°	ψ°	h/d	
204	$K_{13}+H_{1.0}+E_{5.0}$ (150 psi)/Bifurcated duct with 150 psi air	80	1433/0	8	6	-3.8	∞	Off
205	$K_{13}+H_{1.0}+E_{5.0}$ (40 psi)/Same as 204 with 40 psi air	"	"	"	"	"	"	"
207	$K_{13}+H_{1.2.1}+I_1+E_{1.0}$ (0 psi)/7.6" solid cap, no gap	"	"	"	"	"	"	"
208	$K_{13}+H_{1.2.2}+I_1+E_{1.0}$ (0 psi)/Same as 207 except 0.55" gap	"	"	"	"	"	"	"
210	$K_{13}+H_{1.15.1}+I_1+E_{1.0}$ (0 psi)/Repeat of 189	"	"	"	"	"	"	"
211	$K_{13}+H_{1.14.1}+I_1+E_{1.0}$ (0 psi)/Like 189 and 210 except cap is open	"	"	"	"	"	"	"

TABLE 3

INDEX TO RAKE POSITIONS

RUN NUMBER	TEST POINT	WATER LINE	MODEL STATION	BUTT LINE	LOCATION FIGURE
111	20	53.5	103.1	-7.25	1
	21	"	"	"	
	22	"	105.0	"	
	24	"	107.0	"	
	26	"	109.0	"	
	28	"	111.0	"	
	30	"	112.9	"	
	32	"	114.9	"	
	34	"	116.9	"	
	36	"	118.9	"	
112	2	48.9	107.3	-7.25	1
	4	50.8	"	"	
	6	52.7	103.3	"	
	8	54.5	"	"	
	10	56.2	"	"	
	12	57.2	"	"	
113	2	51.7	103.3	-3.25	1
	4	52.3	"	"	
	6	52.8	"	"	
	8	53.3	"	"	
	10	53.9	"	"	
	11	53.3	"	"	
114	2	44.5	103.0	-3.25	1
	4	46.4	"	"	
	6	48.2	"	"	
	8	50.0	"	"	
	10	51.9	"	"	
115	3	52.9	124.7	-3.25	1
	4	52.0	"	"	
	6	50.0	"	"	
	9	48.0	"	"	
	10	46.0	"	"	
	12	44.1	"	"	
	14	42.1	"	"	
	16	53.0	"	"	
	18	54.0	"	"	
	20	55.0	"	"	

TABLE 3 (CONTINUED) INDEX TO RAKE POSITIONS					
RUN NUMBER	TEST POINT	WATER LINE	MODEL STATION	BUTT LINE	LOCATION FIGURE
116	7	36.9	100.5	-17.5	1
117	2	37.6	100.5	-16.0	1
	4	"	"	-14.0	
	6	37.3	99.6	-12.0	
	8	"	"	-10.0	
	10	"	"	- 8.0	
118	2	37.6	100.5	- 6.0	1
119	2	37.3	99.6	+ 6.0	1
	5	"	"	8	
	8	"	"	10	
	9	"	"	"	
	14	"	"	14	
	16	"	"	16	
	20	51.5	102.5	17.5	
	25	52.3	101.7	-17.5	
121	3	62.9	129.0	+ 5.7	2
	4	53.5	"	"	
	6	50.1	"	"	
	8	46.0	"	"	
	10	42.1	"	"	
135	2	56.9	106.3	- 5.7	3
	4	54.5	"	"	
	6	52.5	"	"	
	8	50.5	"	"	
	10	48.5	"	"	
	12	46.5	"	"	
	14	44.5	"	"	
136	2	56.5	104.0	- 8.0	4
	4	54.5	"	"	
	6	52.5	"	"	
	8	50.6	"	"	
	10	48.5	"	"	
	12	46.5	"	"	
	14	44.5	"	"	
	17	37.1	"	"	
	18	39.0	"	"	
	19	41.0	"	"	

TABLE 3 (CONTINUED)

INDEX TO RAKE POSITIONS

RUN NUMBER	TEST POINT	WATER LINE	MODEL STATION	BUTT LINE	LOCATION FIGURE
137	3	38.7	98.4	- 8.0	5
	5	39.9	"	"	
	7	42.0	100.5	"	
	9	44.0	"	"	
	11	46.0	103.6	"	
	13	48.0	"	"	
	15	50.0	"	"	
	17	52.0	"	"	
	19	54.0	"	"	
138-41, 143	2	38.8	98.4	- 8.0	5
	3	40.0	"	"	
	4	42.0	100.5	"	
	5	44.0	"	"	
	6	46.0	103.6	"	
	7	48.0	"	"	
	8	50.0	"	"	
	9	52.0	"	"	
	10	54.0	"	"	
142	7	37.8	98.4	- 8.0	5
	8	"	"	"	
	9	40.2	"	"	
	10	42.0	100.5	"	
	11	44.0	"	"	
	12	46.0	103.6	"	
	13	48.0	"	"	
	14	50.0	"	"	
	15	52.0	"	"	
	16	54.0	"	"	
	17	56.8	"	"	

TABLE 3 (CONTINUED)

INDEX TO RAKE POSITIONS

RUN NUMBER	TEST POINT	WATER LINE	MODEL STATION	BUTT LINE	LOCATION FIGURE
149-151	2	38.8	98.5	- 8.0	5
	3	40.0	"	"	
	4	42.0	100.6	"	
	5	44.0	"	"	
	6	46.0	103.5	"	
	7	48.0	"	"	
	8	50.0	"	"	
	9	52.0	"	"	
	10	54.0	"	"	
152-6, 158	2	42.9	97.9	0.0	6
161-4, 166	3	44.9	"	"	
167, 169-71	4	46.9	100.6	"	
175, 177-9	5	48.9	"	"	
180,182,184	6	50.9	104.6	"	
186-8, 190	7	52.9	"	"	
191,193,194	8	54.9	"	"	
196,198,201	9	56.9	"	"	
204,207,208					
211					
159	1	54.9	104.6	0.0	6
	2	52.9	"	"	
	3	50.7	"	"	
	4	48.6	100.6	"	
	5	46.7	"	"	
160,203	5	42.9	97.9	0.0	6
	6	44.9	"	"	
	7	46.9	100.6	"	
	8	48.9	"	"	
	9	50.9	104.6	"	
	10	52.9	"	"	
	11	54.9	"	"	
165	3	44.9	97.9	0.0	6
	4	42.9	"	"	
	5	46.9	100.6	"	
	6	48.9	"	"	
	7	50.9	104.6	"	
	8	52.9	"	"	

TABLE 3 (CONTINUED)

INDEX TO RAKE POSITIONS

RUN NUMBER	TEST POINT	WATER LINE	MODEL STATION	BUTT LINE	LOCATION FIGURE
168, 183	4	42.9	97.9	0.0	6
	5	44.9	"	"	
	6	46.9	100.6	"	
	7	48.9	"	"	
	8	50.9	104.6	"	
	9	52.9	"	"	
	10	54.9	"	"	
172	3	42.9	97.9	0.0	6
	4	44.9	"	"	
	6	44.9	"	"	
	7	46.9	100.6	"	
	8	48.9	"	"	
	9	50.9	104.6	"	
	10	52.9	"	"	
	11	54.9	"	"	
173,174,176	1	42.9	97.9	0.0	6
185,195,197	2	44.9	"	"	
199,200,205	3	46.9	100.6	"	
210	4	48.9	"	"	
	5	50.9	104.6	"	
	6	52.9	"	"	
	7	54.9	"	"	
181	2	42.9	97.9	0.0	6
	3	44.9	"	"	
	4	46.9	100.6	"	
	5	48.9	"	"	
	6	50.9	104.6	"	
	7	52.9	"	"	
	9	54.9	"	"	
	10	"	"	"	
	11	"	"	"	
	12	"	"	"	
	13	42.9	97.9	"	

TABLE 3 (CONTINUED)

INDEX TO RAKE POSITIONS

RUN NUMBER	TEST POINT	WATER LINE	MODEL STATION	BUTT LINE	LOCATION FIGURE
189	29	42.9	97.9	0.0	6
	30	44.9	"	"	
	31	46.9	100.6	"	
	32	48.9	"	"	
	33	"	"	"	
	34	50.9	104.6	"	
	35	"	"	"	
	36	48.9	100.6	"	
	37	50.9	104.6	"	
	38	52.9	"	"	
	39	54.9	"	"	
202	3	43.4	97.9	0.0	6
	4	44.9	"	"	
	5	46.9	100.6	"	
	6	48.9	"	"	
	7	50.9	104.6	"	

HORIZONTAL:

RUNS 112 - 115
121
137 - 143
148 - 156
158 - 211

VERTICAL:

RUNS 111
116 - 119
135, 136

NOTE: INVERTED: 118

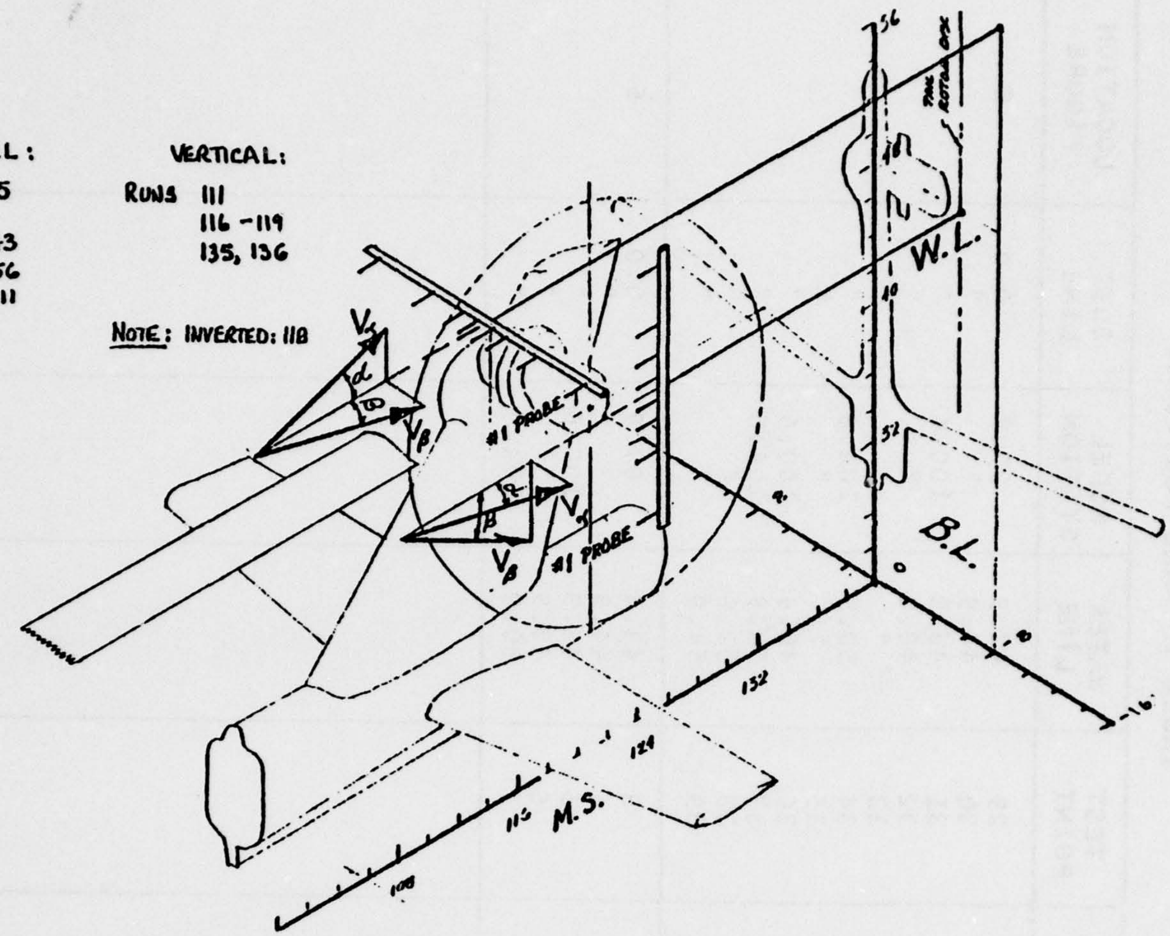


FIGURE 1 - RAKE ORIENTATION DIAGRAM

RUN 121

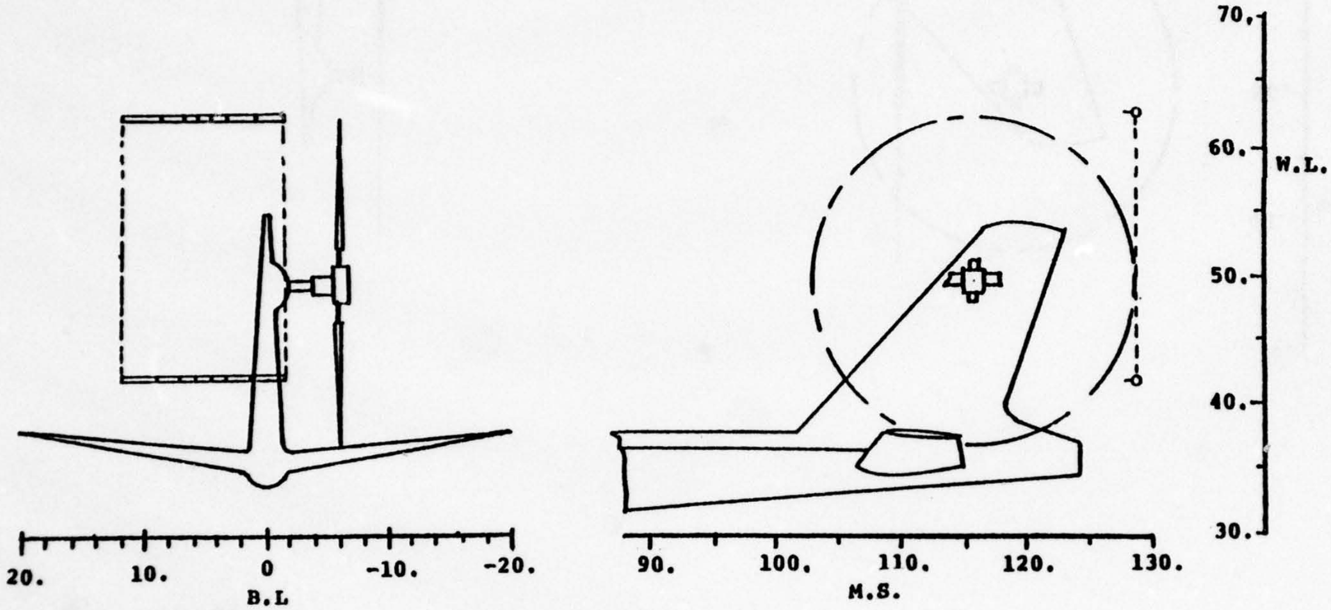


FIGURE 2 -HOT FILM RAKE LOCATIONS

RUN 135

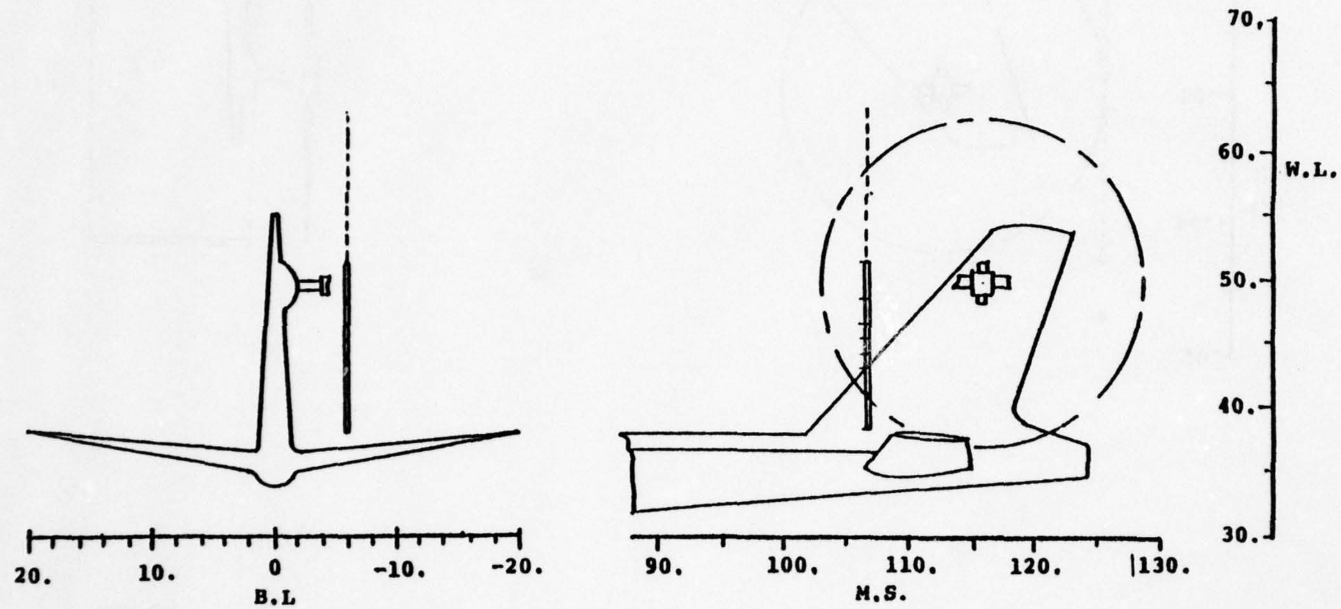


FIGURE 3 -HOT FILM RAKE LOCATIONS

RUN 136

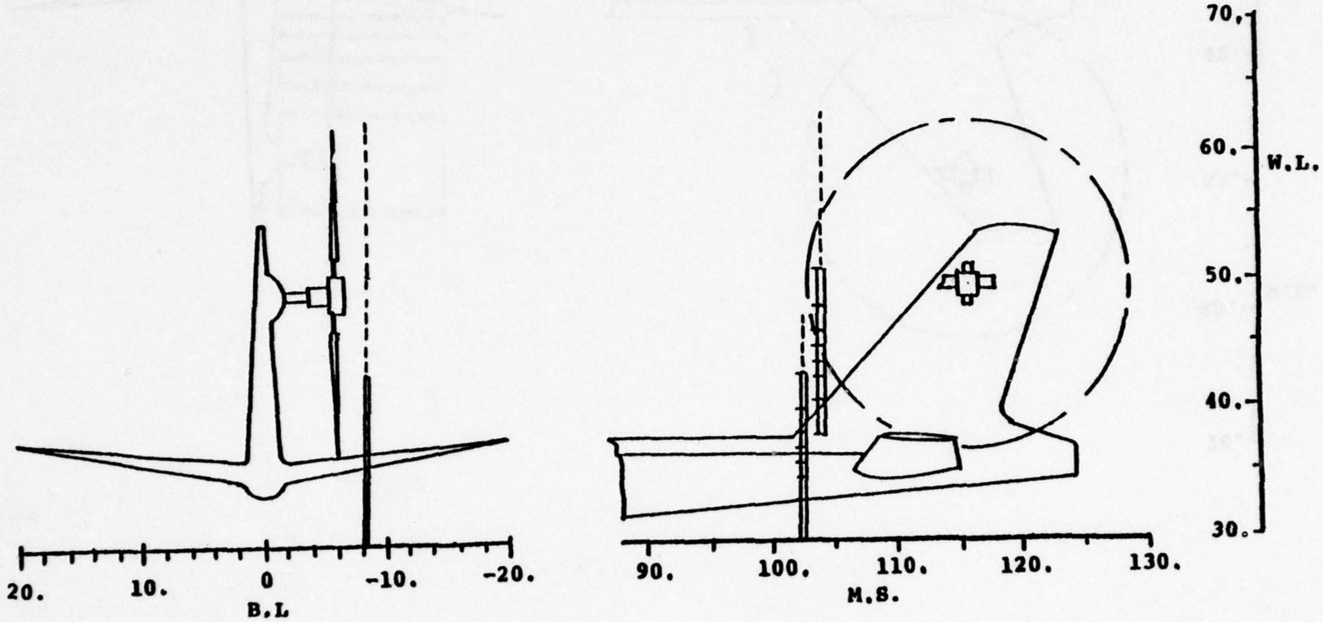


FIGURE 4 -HOT FILM RAKE LOCATIONS

RUN 137, 138, 139, 140, 141, 142,
143, 148, 149, 150, 151

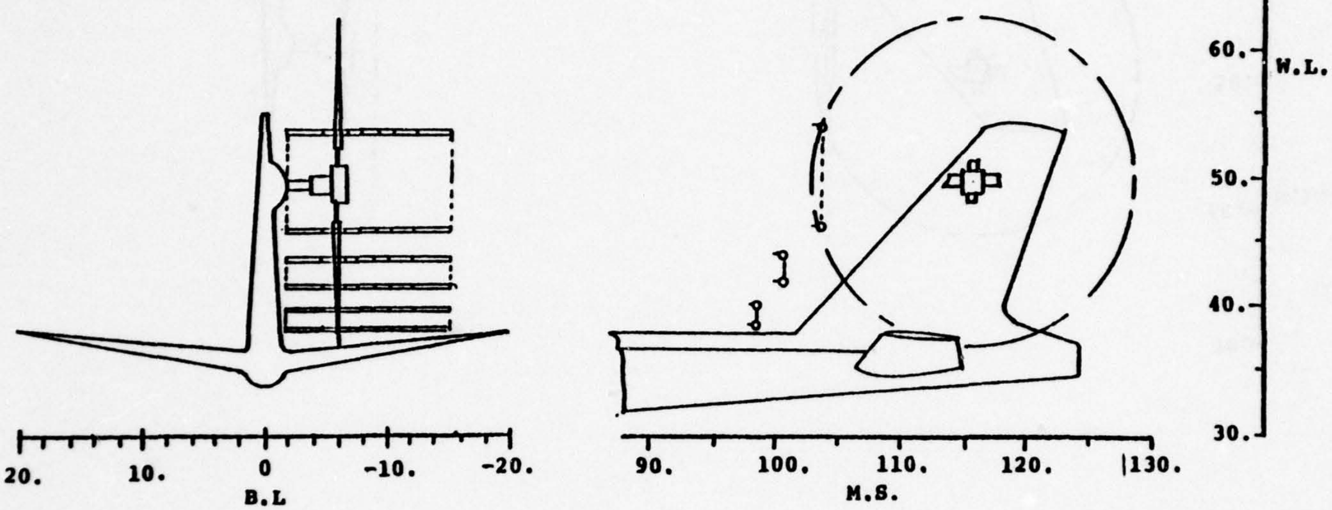


FIGURE 5 -HOT FILM RAKE LOCATIONS

RUN 152-156, 158-211

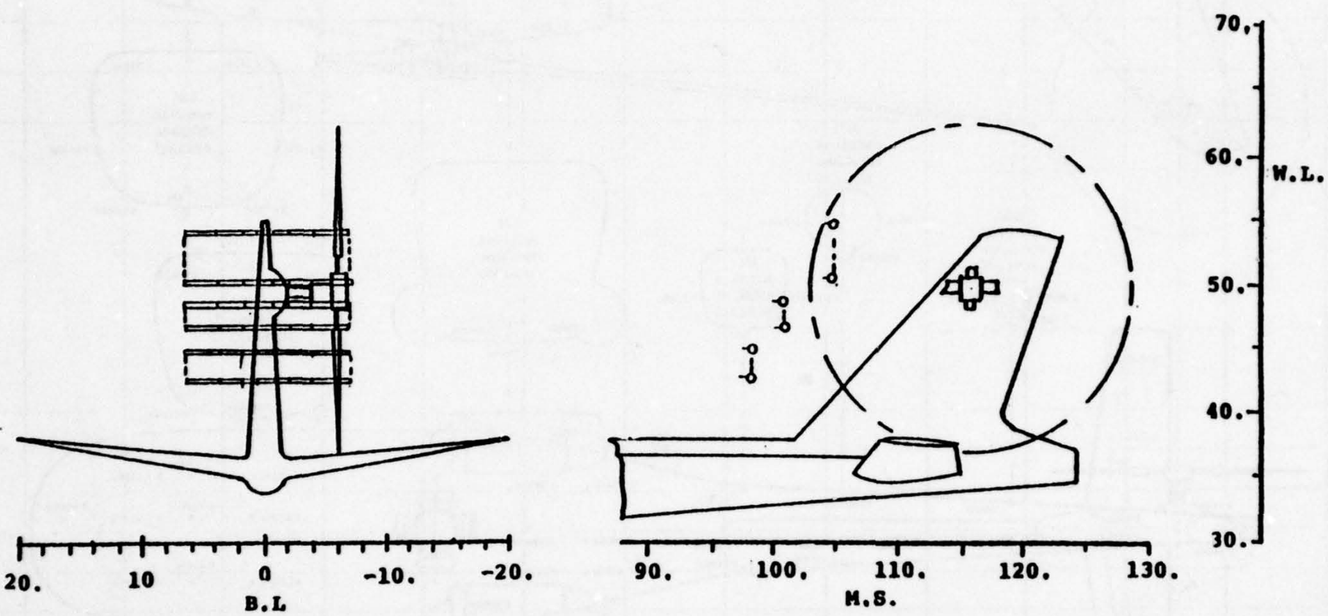


FIGURE 6 -HOT FILM RAKE LOCATIONS

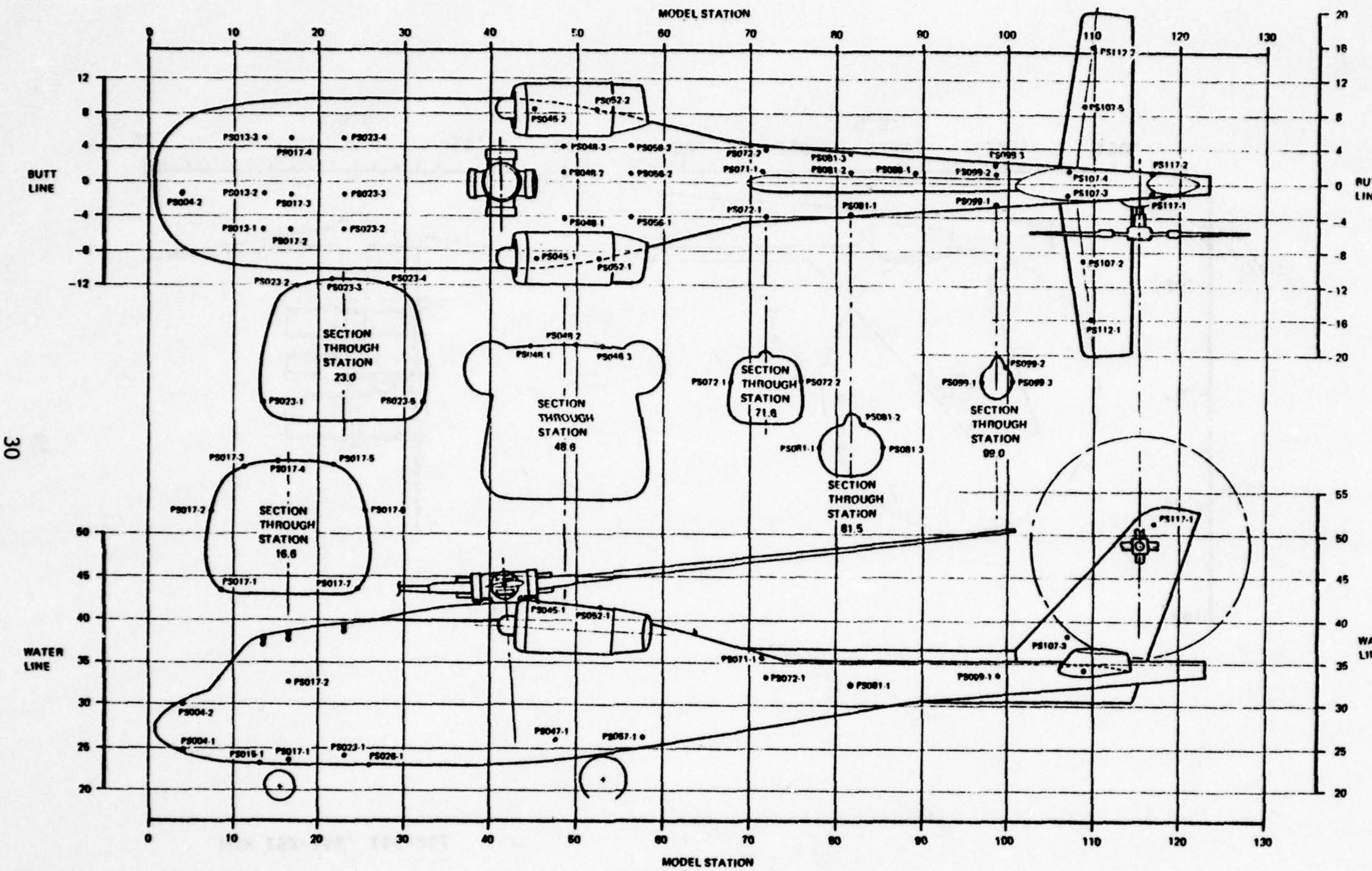
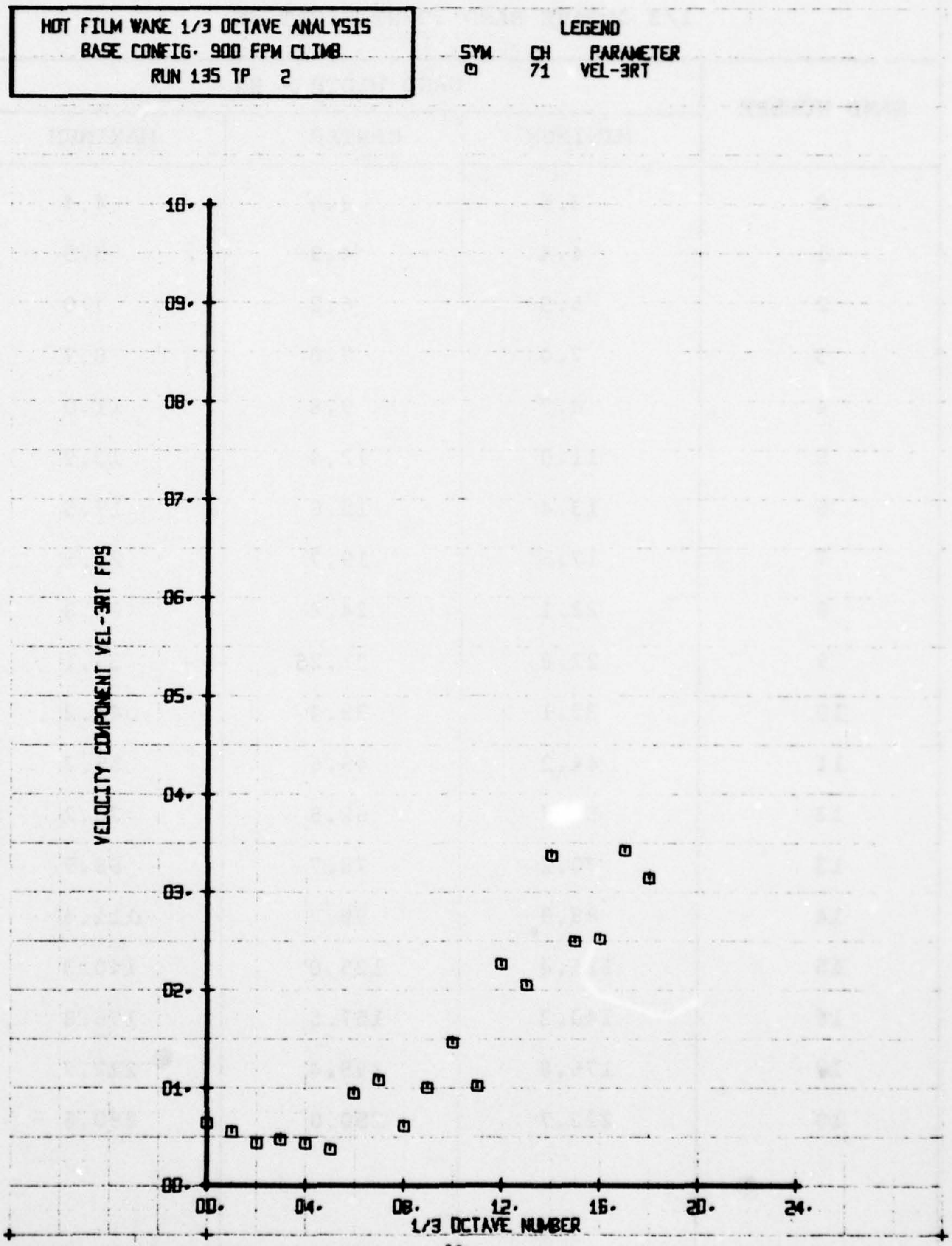


FIGURE 7 -1/4.85 SCALE MODEL GEOMETRY AND SURFACE PRESSURE TRANSDUCER LOCATIONS

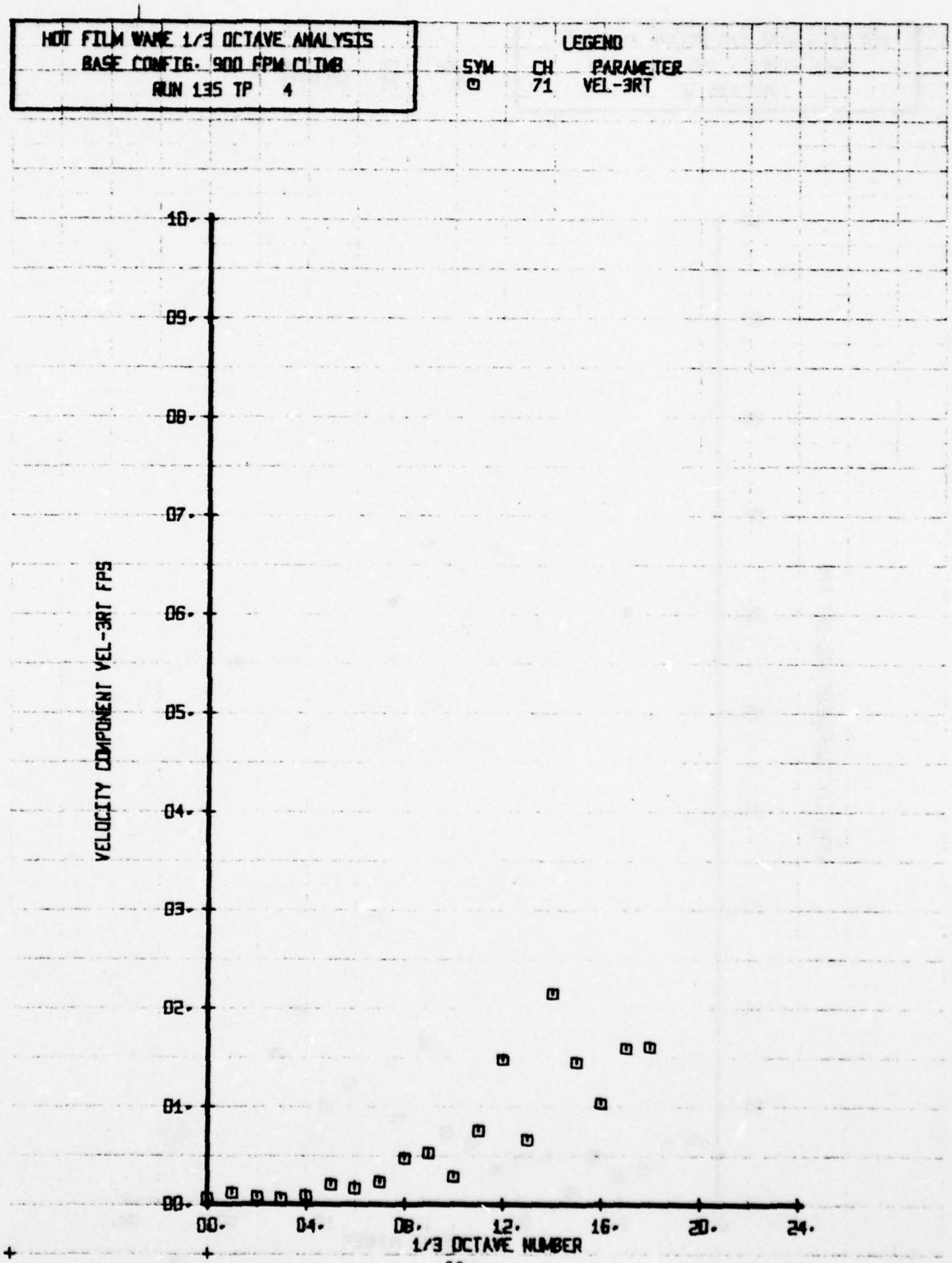
TABLE 4

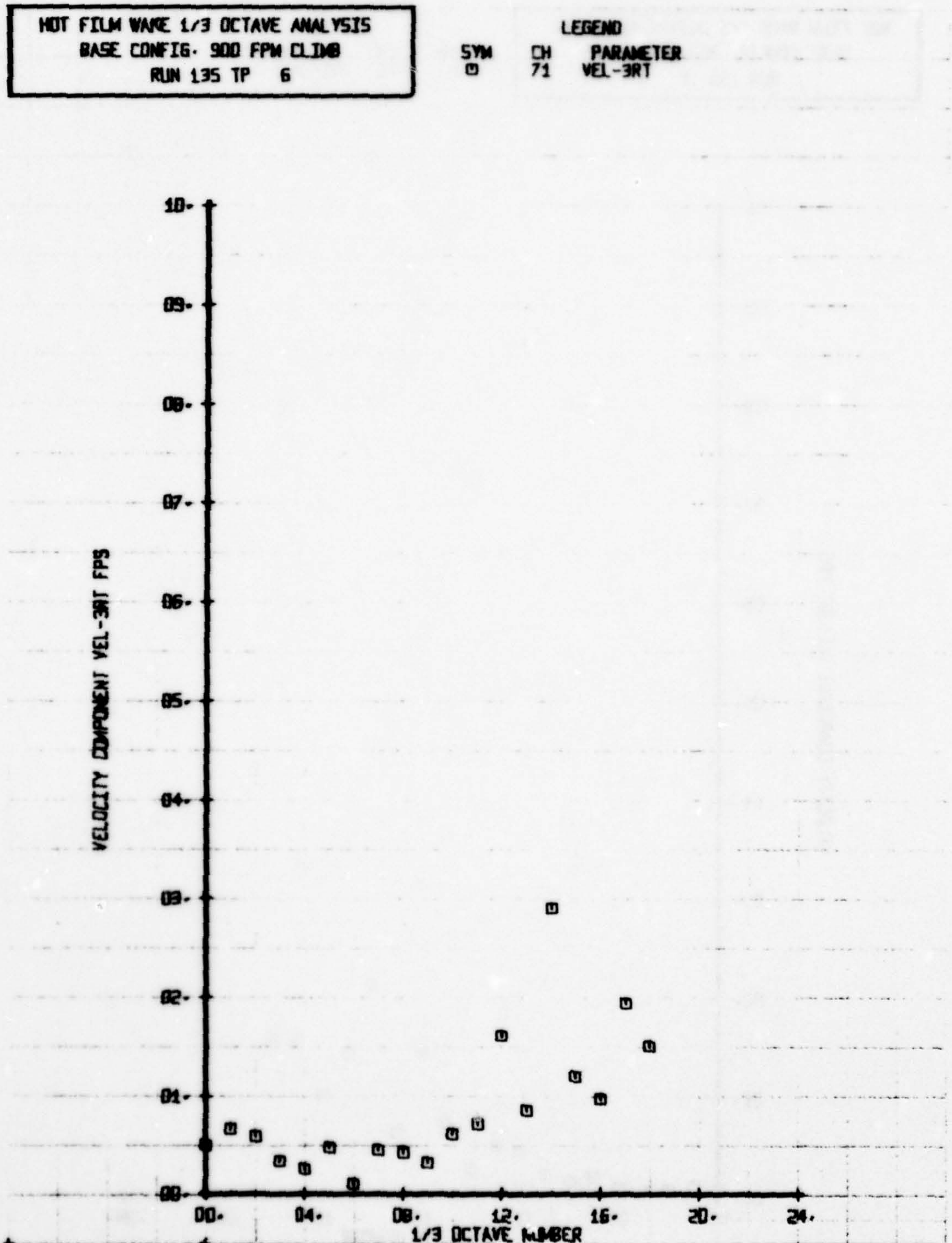
1/3 OCTAVE BAND IDENTIFICATION

BAND NUMBER	BAND WIDTH - Hz		
	MINIMUM	CENTER	MAXIMUM
0	3.5	3.4	4.4
1	4.4	4.9	5.5
2	5.5	6.2	7.0
3	7.0	7.8	8.7
4	8.7	9.8	11.0
5	11.0	12.4	13.9
6	13.4	15.6	17.5
7	17.5	19.7	22.1
8	22.1	24.8	27.8
9	27.8	31.25	35.1
10	35.1	39.4	44.2
11	44.2	49.6	55.7
12	55.7	62.5	70.2
13	70.2	78.7	88.9
14	88.9	99.2	111.4
15	111.4	125.0	140.3
16	140.3	157.5	176.8
17	176.8	198.4	222.7
18	222.7	250.0	280.6

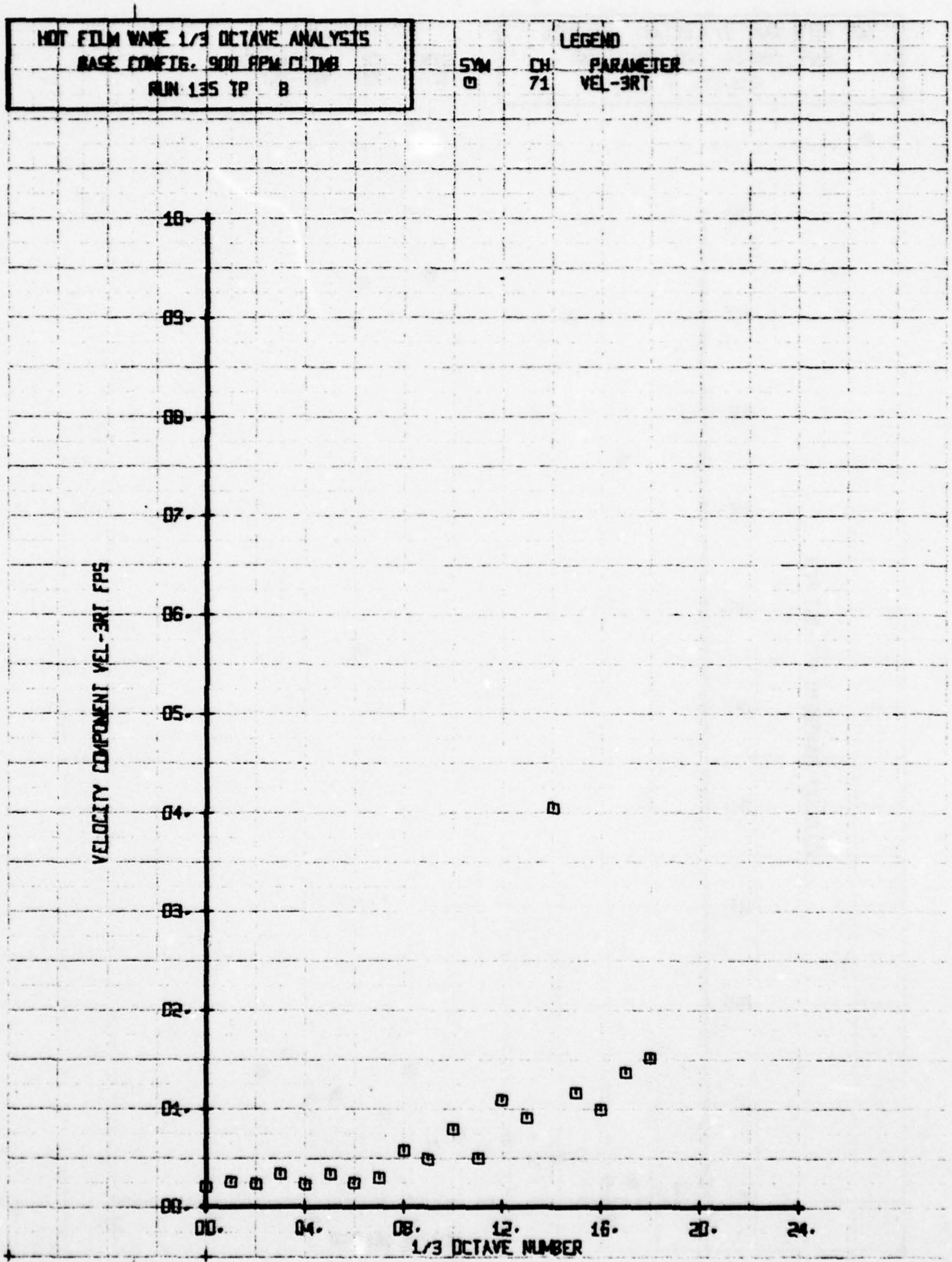


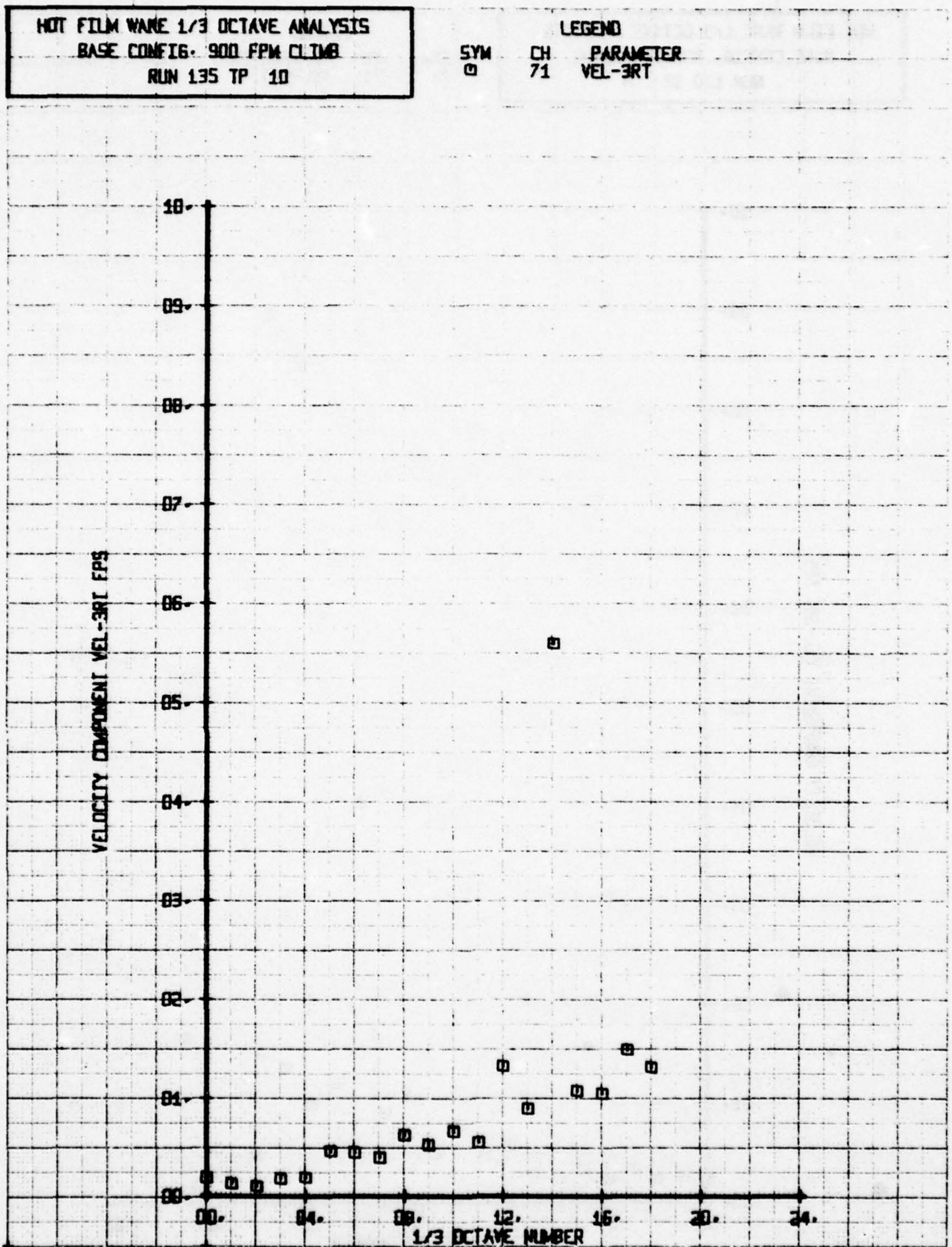
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
BASE CONFIG. 900 FPM CLIMB
RUN 135 TP 2
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
10.
09.
08.
07.
06.
05.
04.
03.
02.
01.
00.
00.
04.
08.
12.
16.
20.
24.
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
BASE CONFIG. 900 FPM CLIMB
RUN 135 TP 4
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
10.
09.
08.
07.
06.
05.
04.
03.
02.
01.
00.
00.
04.
08.
12.
16.
20.
24.
1/3 OCTAVE NUMBER

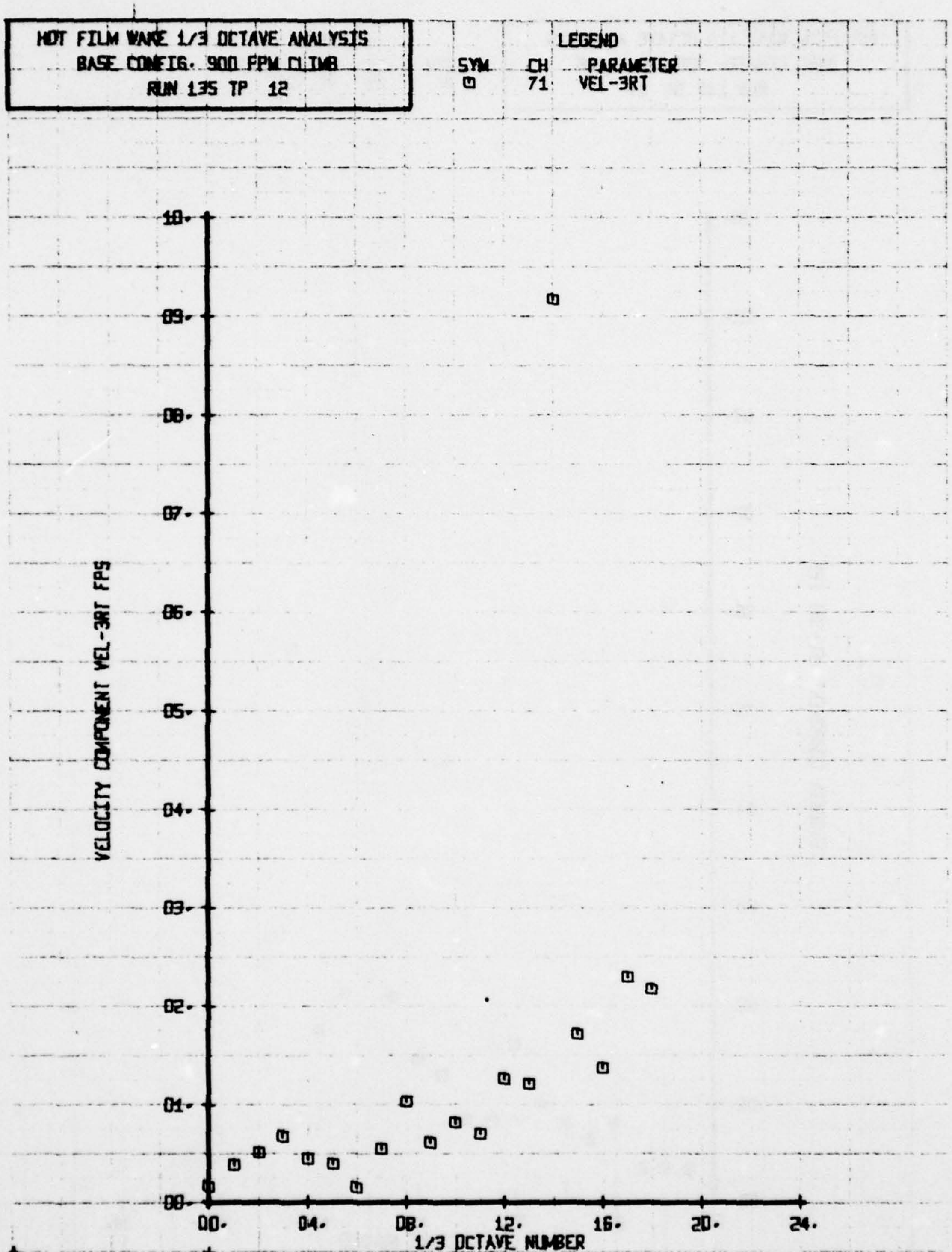


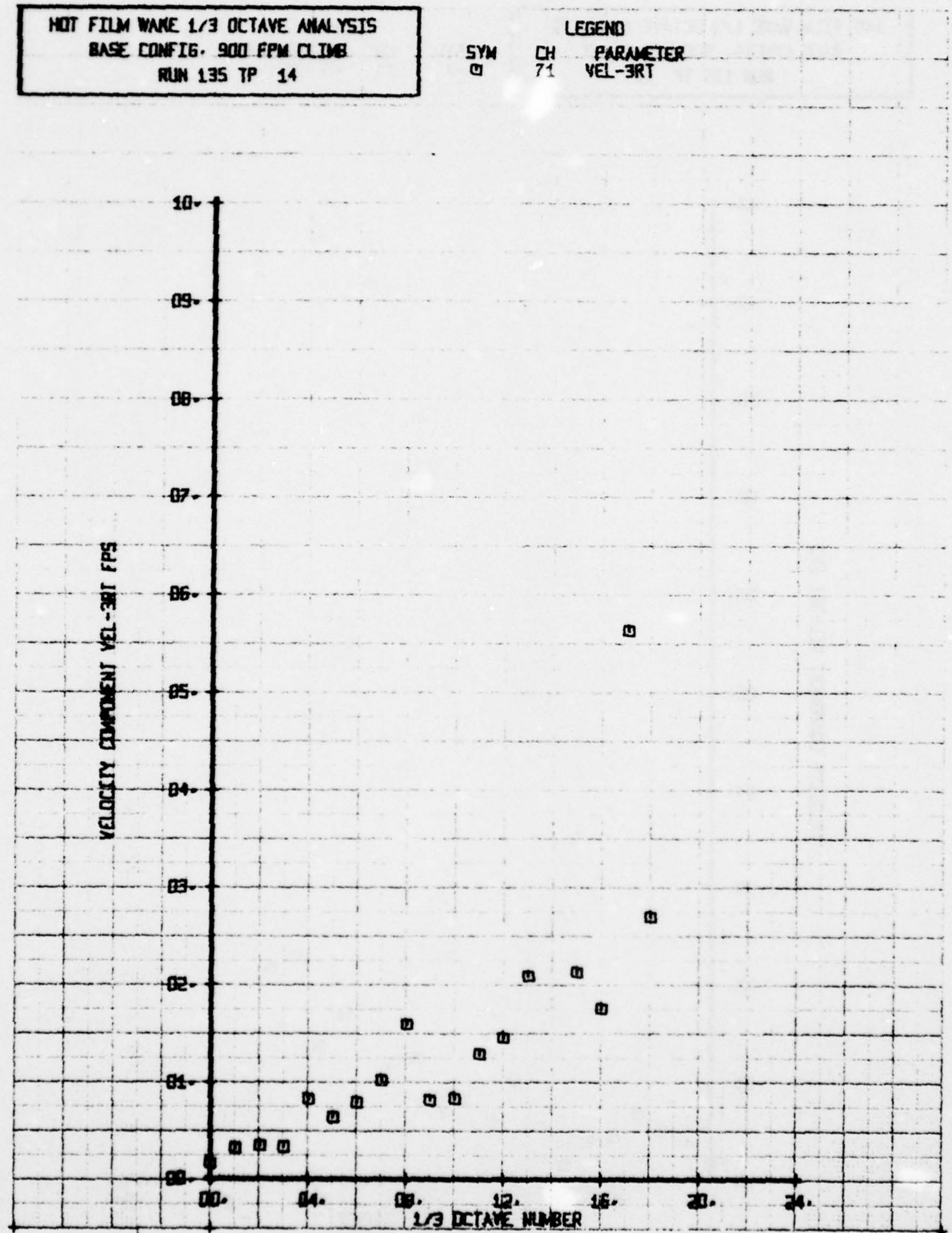
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
BASE CONFIG. 900 FPM CLIMB
RUN 135 TP 6
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
10.
09.
08.
07.
06.
05.
04.
03.
02.
01.
00.
00.
04.
08.
12.
16.
20.
24.
1/3 OCTAVE NUMBER

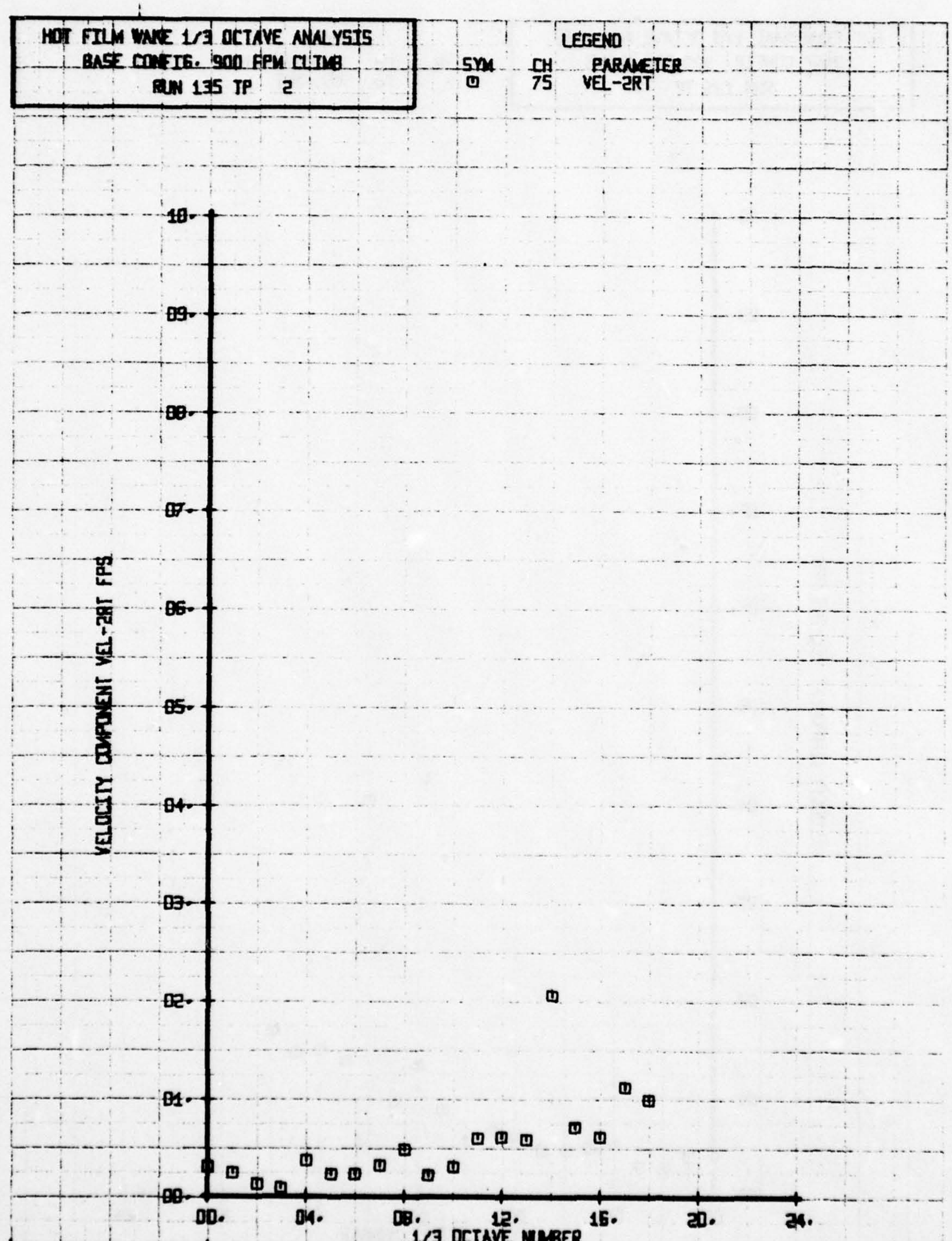

HOT FILM WAKE 1/3 OCTAVE ANALYSIS
BASE CONFIG. 900 RPM CLIMB
RUN 135 TP B
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
10.
09.
08.
07.
06.
05.
04.
03.
02.
01.
00.
00. 04. 08. 12. 16. 20. 24.
1/3 OCTAVE NUMBER



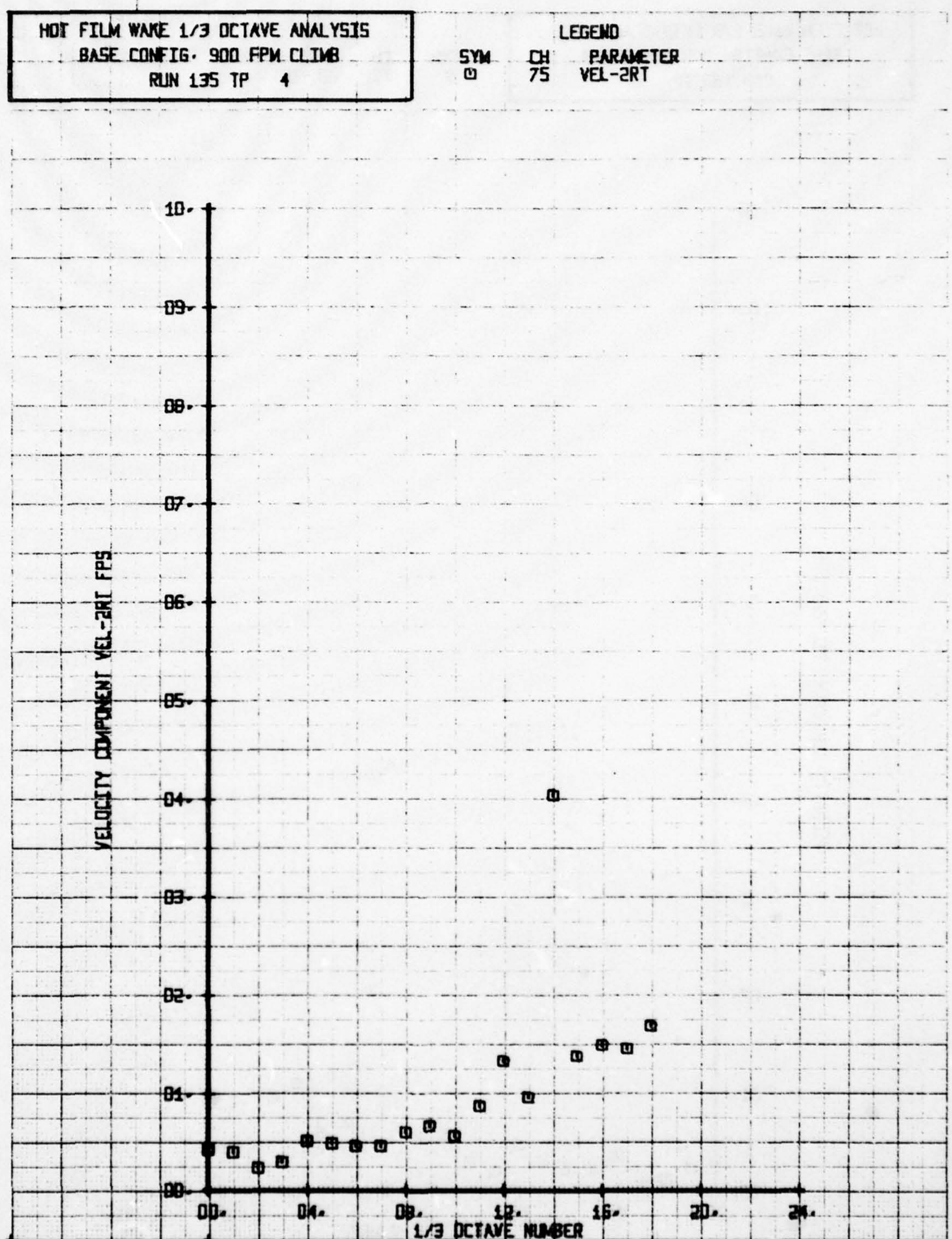
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
BASE CONFIG. 900 FPM CLIMB
RUN 135 TP 10
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
1/3 OCTAVE NUMBER

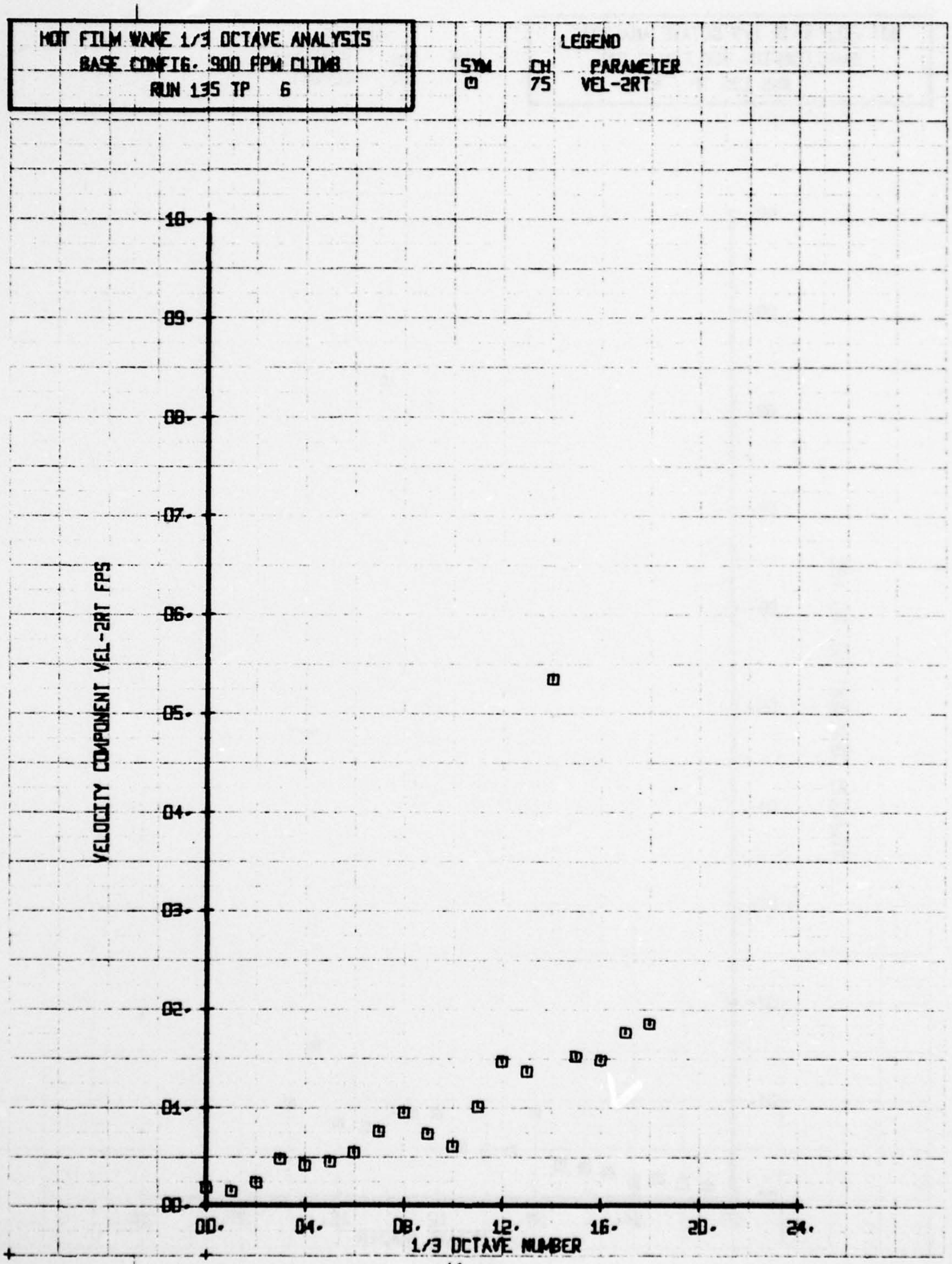

HOT FILM WAKE 1/3 OCTAVE ANALYSIS
BASE CONFIG. 900 FPM CLIMB
RUN 135 TP 12
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
10.
09.
08.
07.
06.
05.
04.
03.
02.
01.
00.
00.
04.
08.
12.
16.
20.
24.
1/3 OCTAVE NUMBER

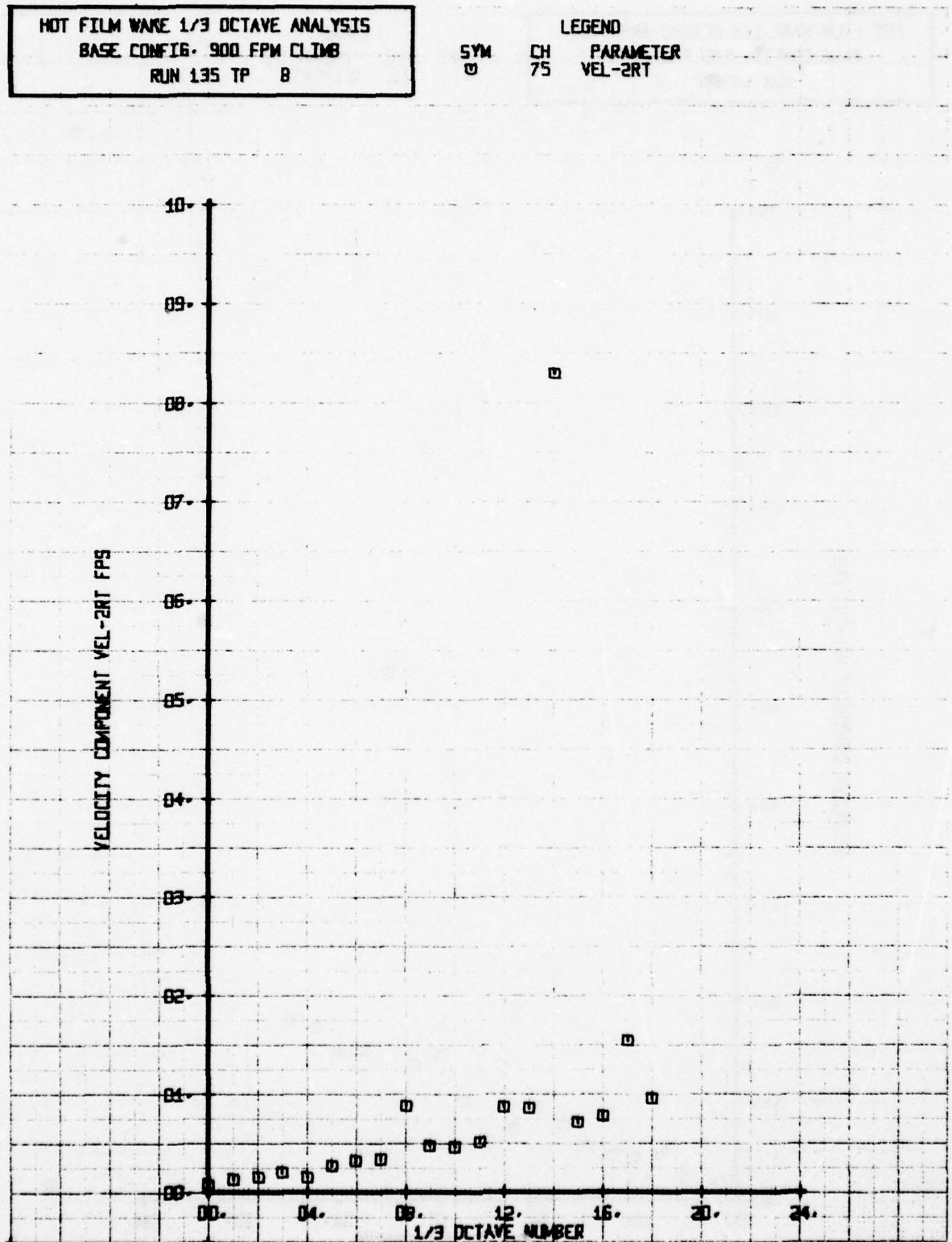

HOT FILM WAKE 1/3 OCTAVE ANALYSIS
BASE CONFIG. 900 FPM CLIMB
RUN 135 TP 14
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
1/3 OCTAVE NUMBER

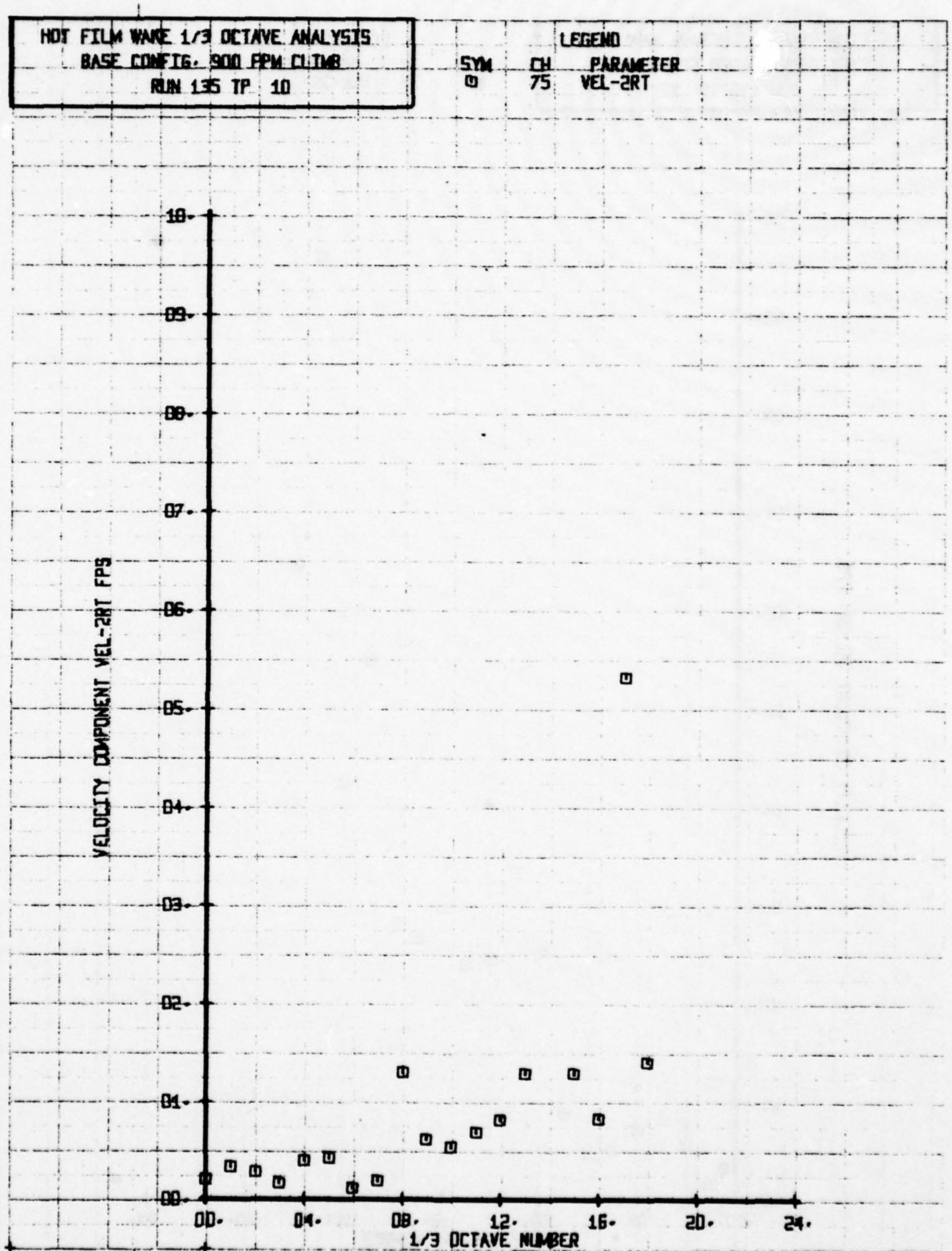


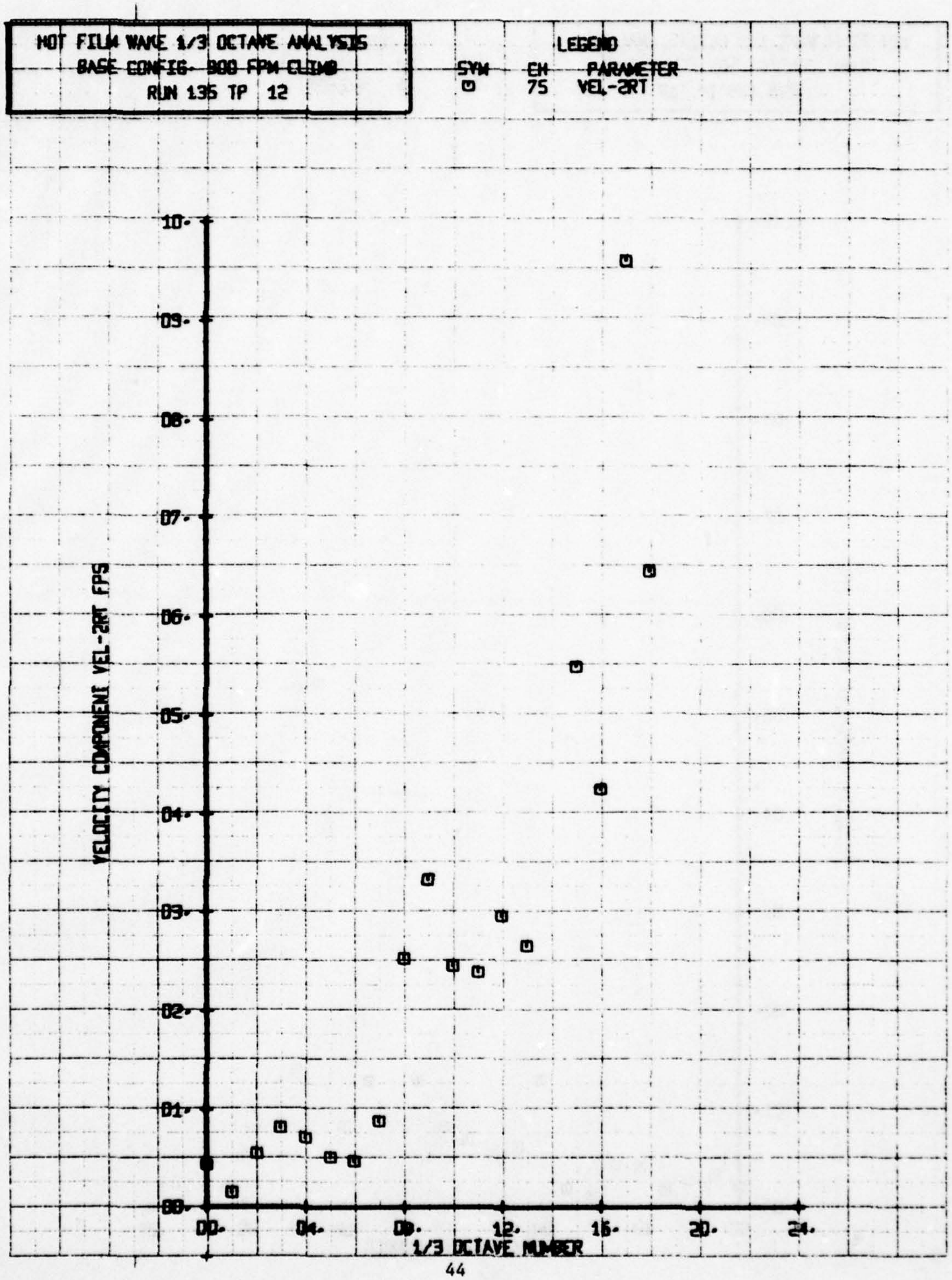
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
BASE CONFIG. 900 FPM CLIMB
RUN 135 TP 2
LEGEND
SYM CH PARAMETER
75 VEL-2RT
VELOCITY COMPONENT VEL-2RT FPS
10.
09.
08.
07.
06.
05.
04.
03.
02.
01.
00.
00. 04. 08. 12. 16. 20. 24.
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
BASE CONFIG. 900 FPM CLIMB
RUN 135 TP 4
LEGEND
SYM CH PARAMETER
75 VEL-2RT
VELOCITY COMPONENT VEL-2RT FPS
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
BASE CONFIG. 900 FPM CLIMB
RUN 135 TP 6
LEGEND
SYM CH PARAMETER
75 VEL-2RT
VELOCITY COMPONENT VEL-2RT FPS
10.
09.
08.
07.
06.
05.
04.
03.
02.
01.
00.
00.
04.
08.
12.
16.
20.
24.
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
BASE CONFIG. 900 FPM CLIMB
RUN 135 TP 8
LEGEND
SYM CH PARAMETER
75 VEL-2RT
VELOCITY COMPONENT VEL-2RT FPS
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
BASE CONFIG. 900 FPM CLIMB
RUN 135 TP 10
LEGEND
SYM CH PARAMETER
75 VEL-2RT
VELOCITY COMPONENT VEL-2RT FPS
10
09
08
07
06
05
04
03
02
01
00
00
04
08
12
16
20
24
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
BASE CONFIG- 800 FPM CLIMB
RUN 135 TP 12
LEGEND
SYM CH PARAMETER
75 VEL-2RT
VELOCITY COMPONENT VEL-2RT FPS
1/3 OCTAVE NUMBER
10.
09.
08.
07.
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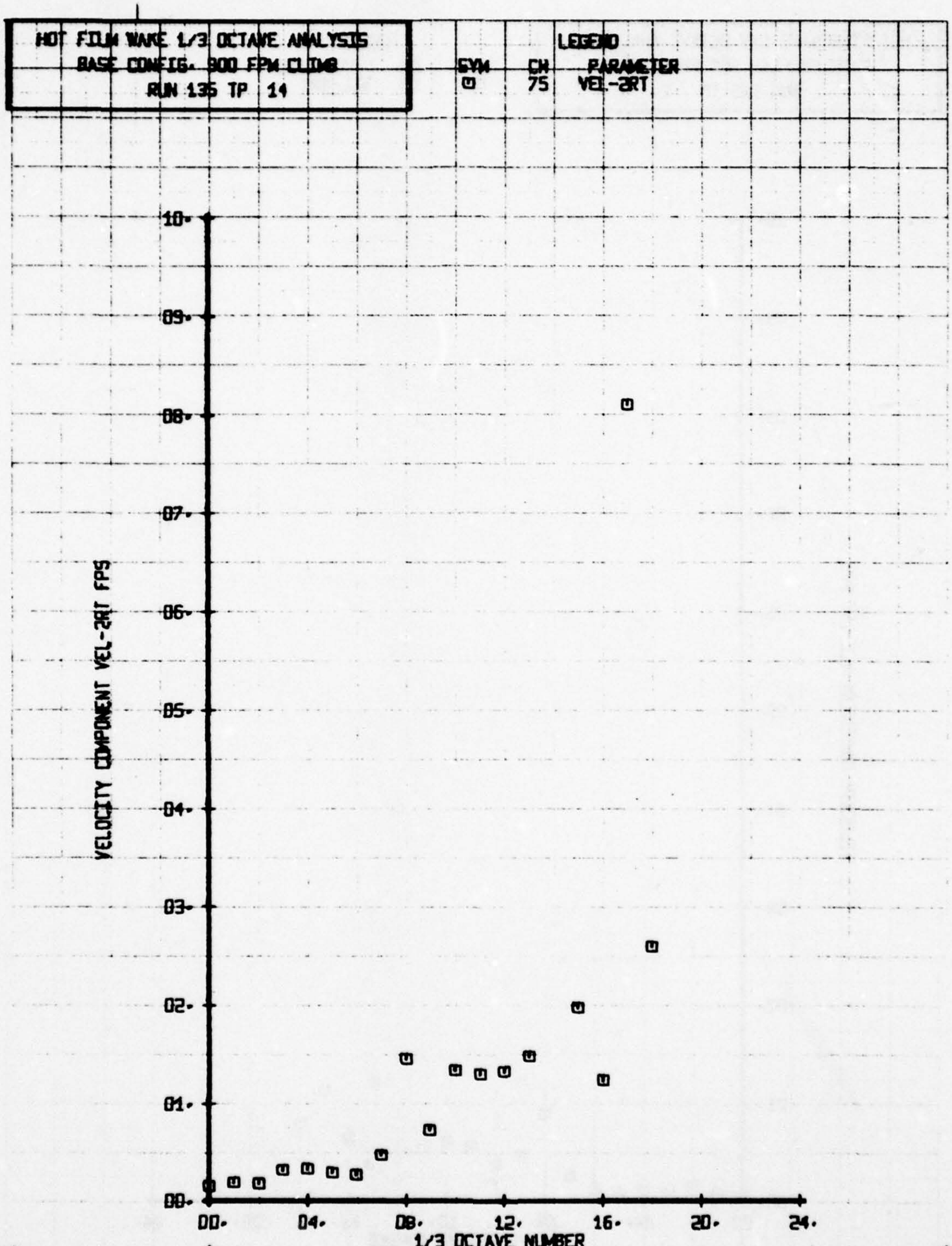
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RUN 135 TP 14
LEGEND
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VELOCITY COMPONENT VEL-2RT FPS
1/3 OCTAVE NUMBER
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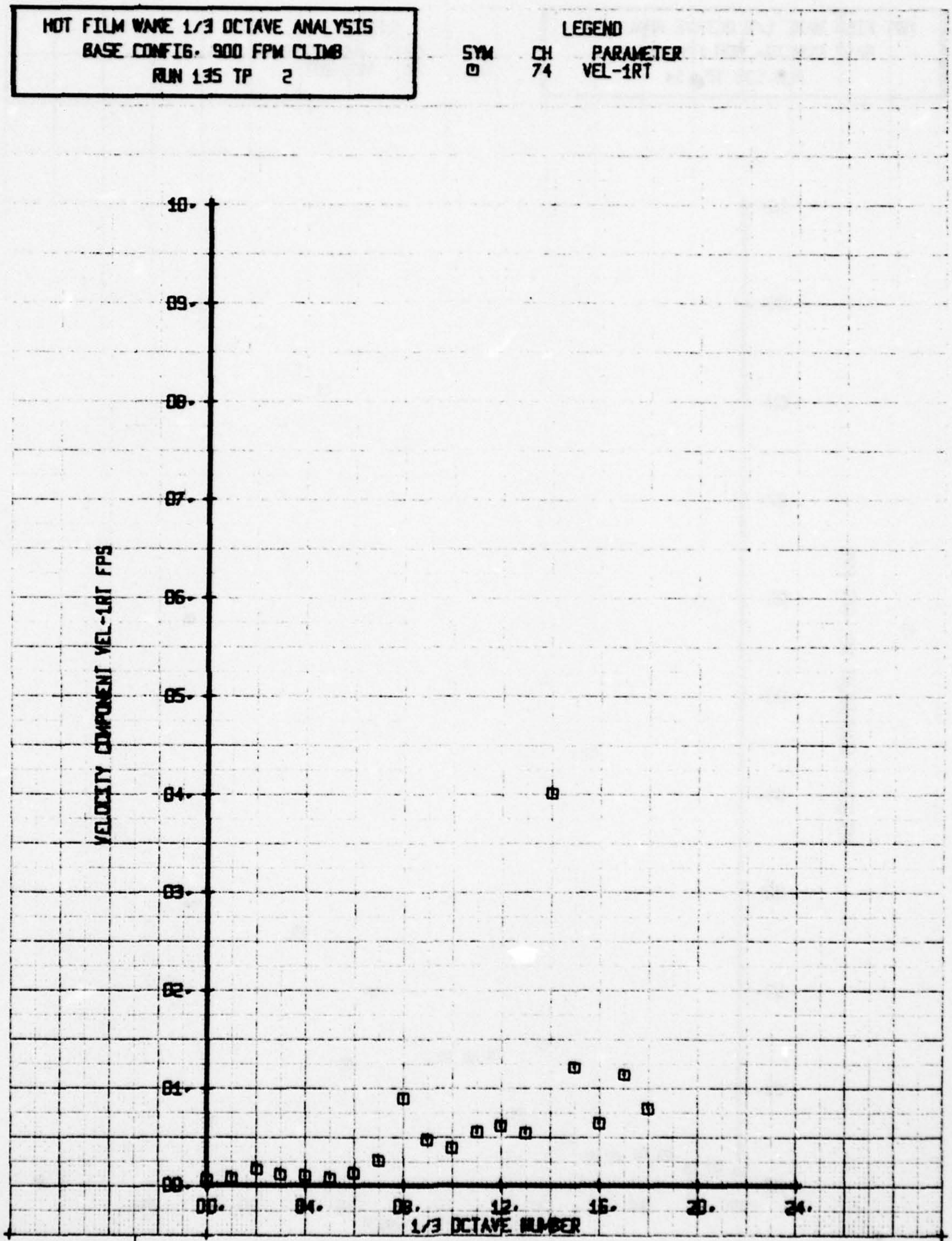
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
BASE CONFIG. 900 FPM CLIMB
RUN 135 TP 2
LEGEND
SYM CH PARAMETER
74 VEL-1RT
VELOCITY COMPONENT VEL-1RT FPS
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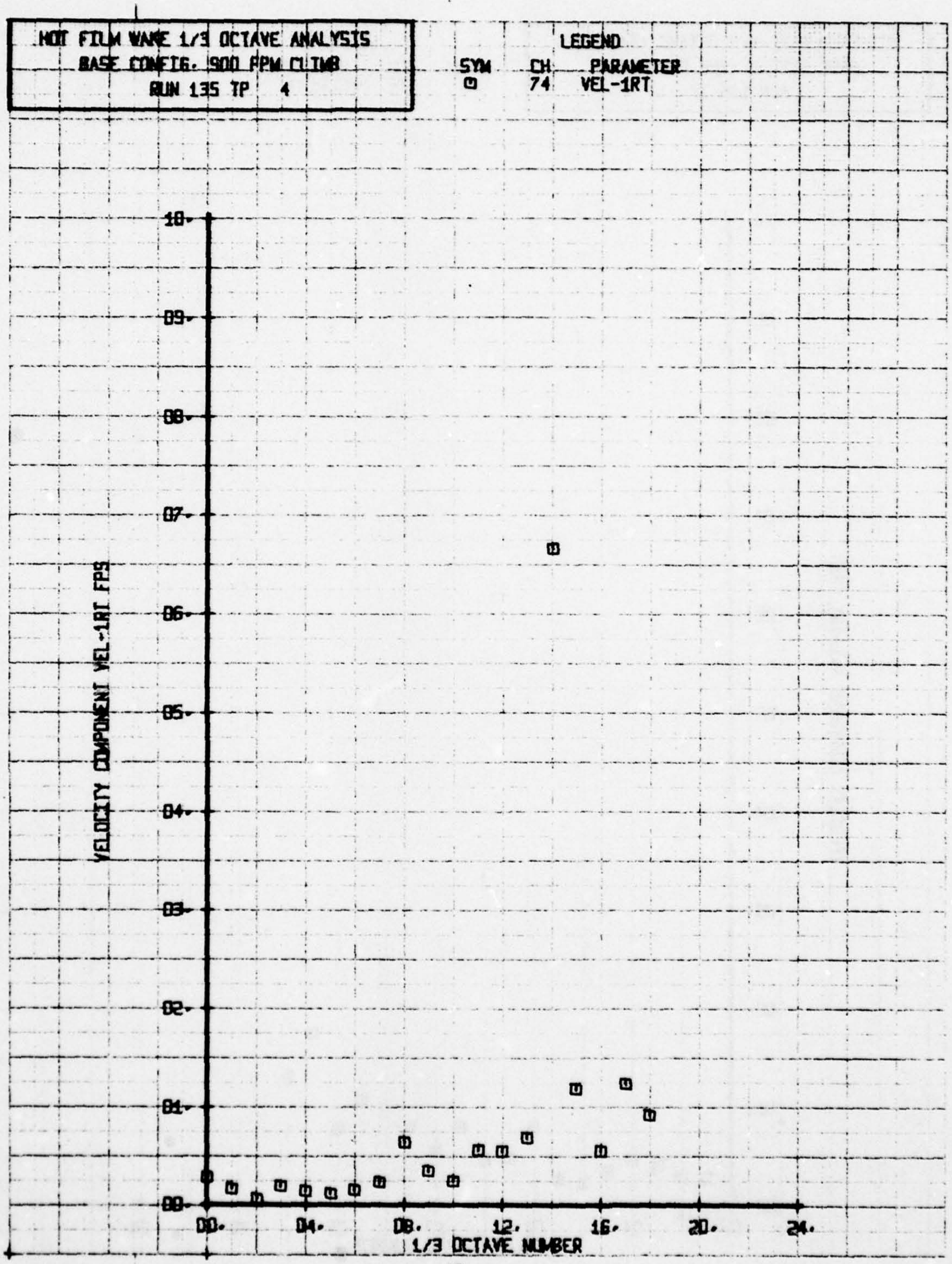

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BASE CONFIG. 900 FPM CLIMB
RUN 135 TP 4
LEGEND
SYM CH PARAMETER
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VELOCITY COMPONENT VEL-1RT FPS
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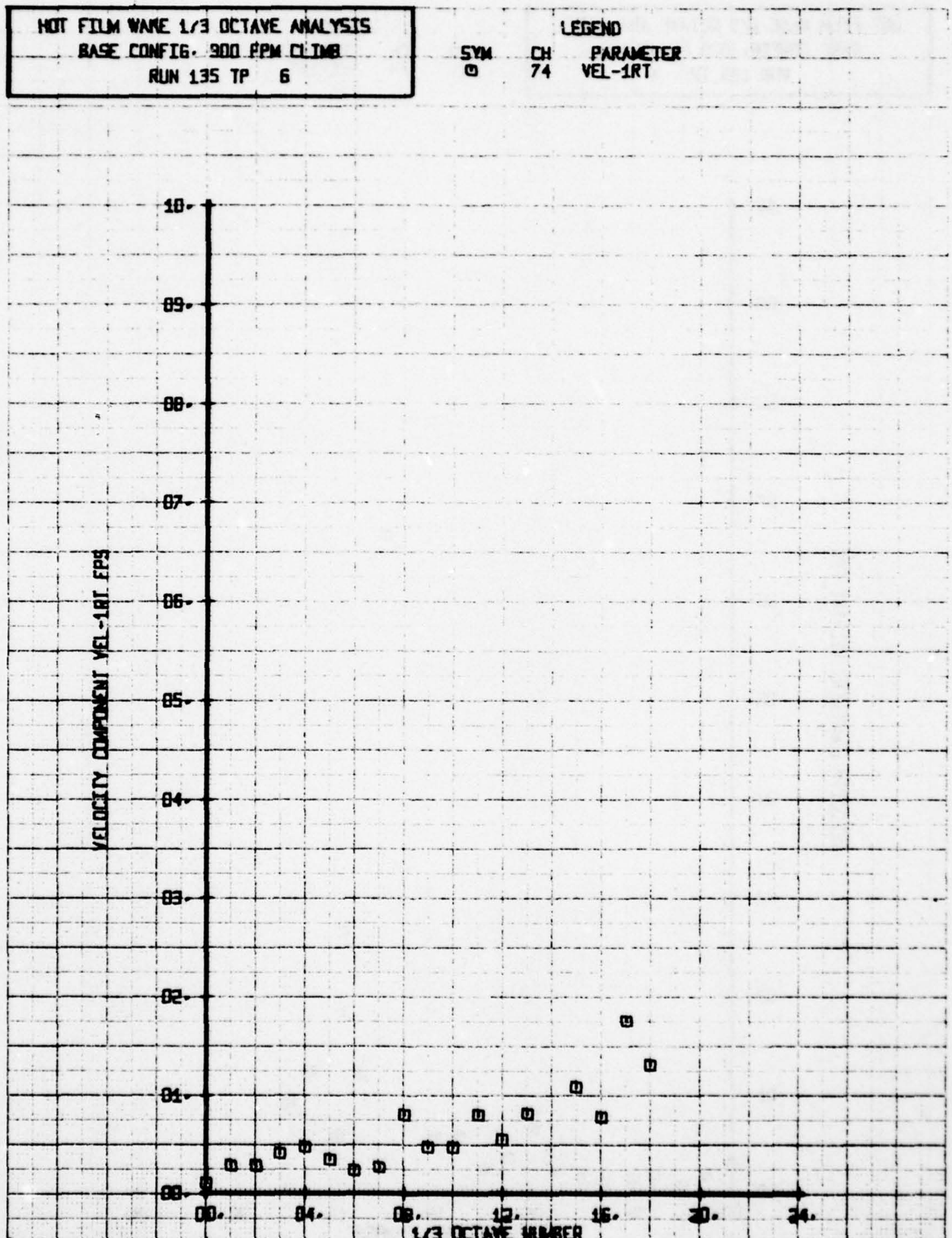
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BASE CONFIG. 900 FPM CLIMB
RUN 135 TP 6
LEGEND
SYM CH PARAMETER
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VELOCITY COMPONENT VEL-1RT FPS
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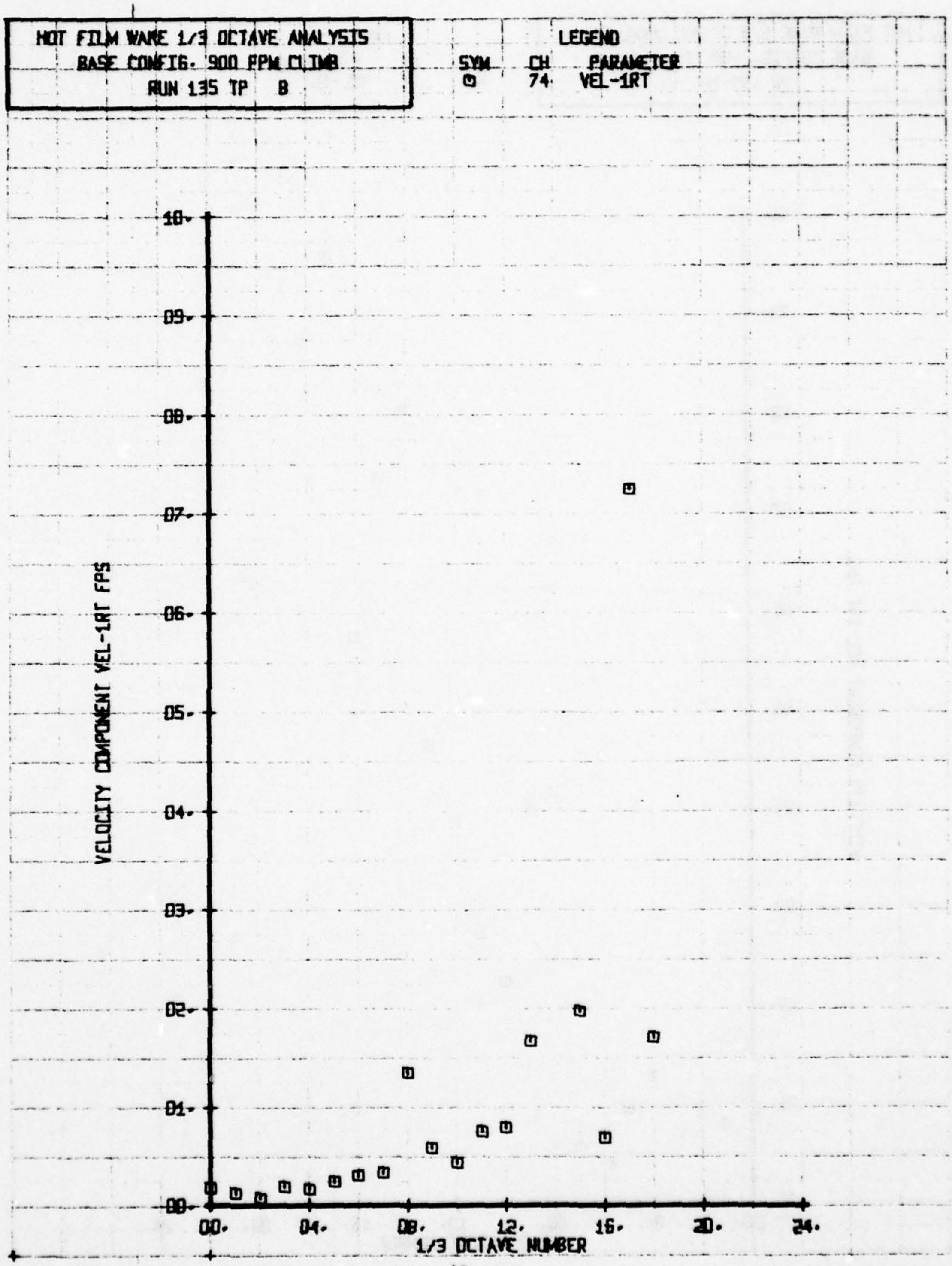
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BASE CONFIG. 900 FPM CLIMB
RUN 135 TP B
LEGEND
SYM CH PARAMETER
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VELOCITY COMPONENT VEL-1RT FPS
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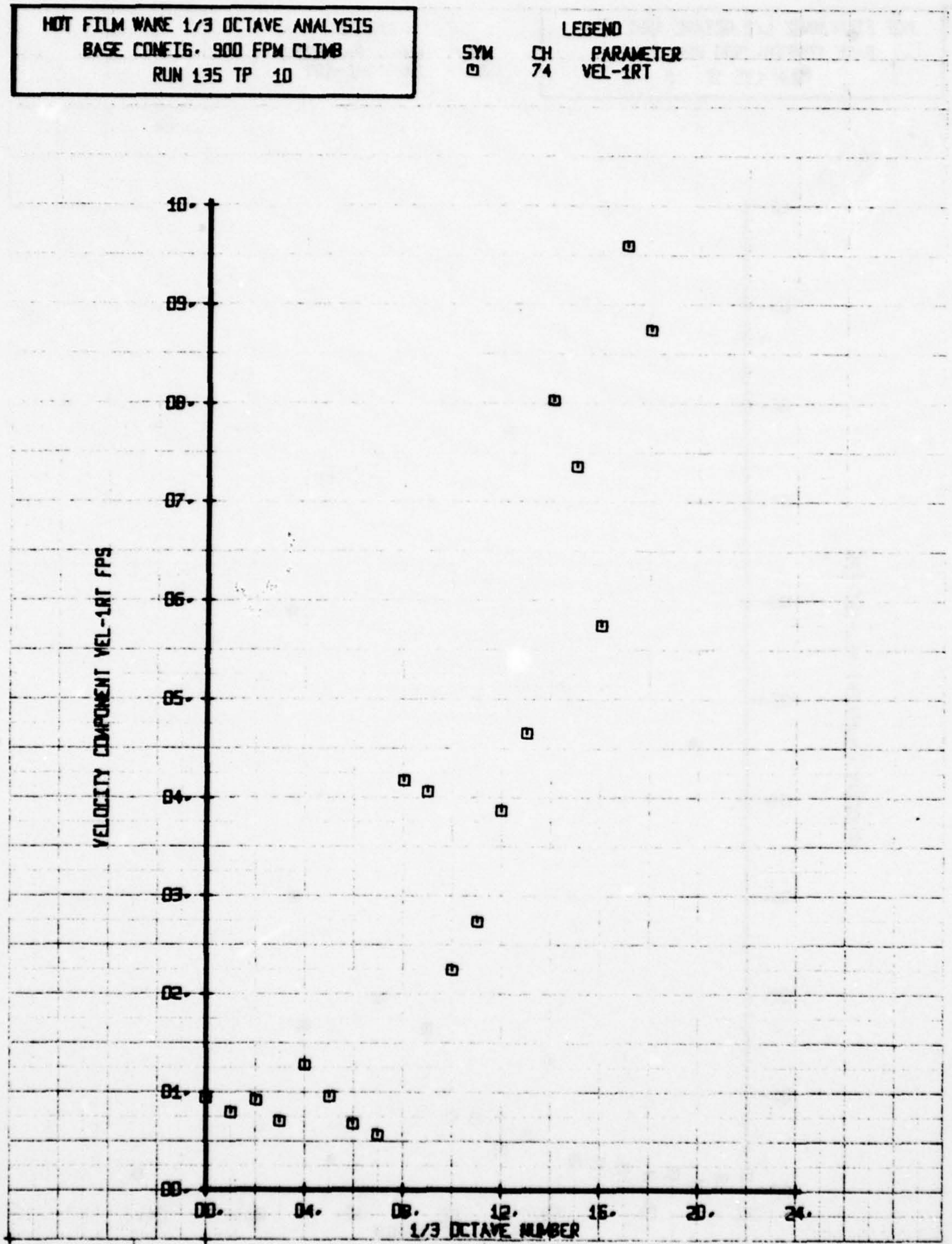
1/3 OCTAVE NUMBER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VELOCITY COMPONENT VEL-1RT FPS
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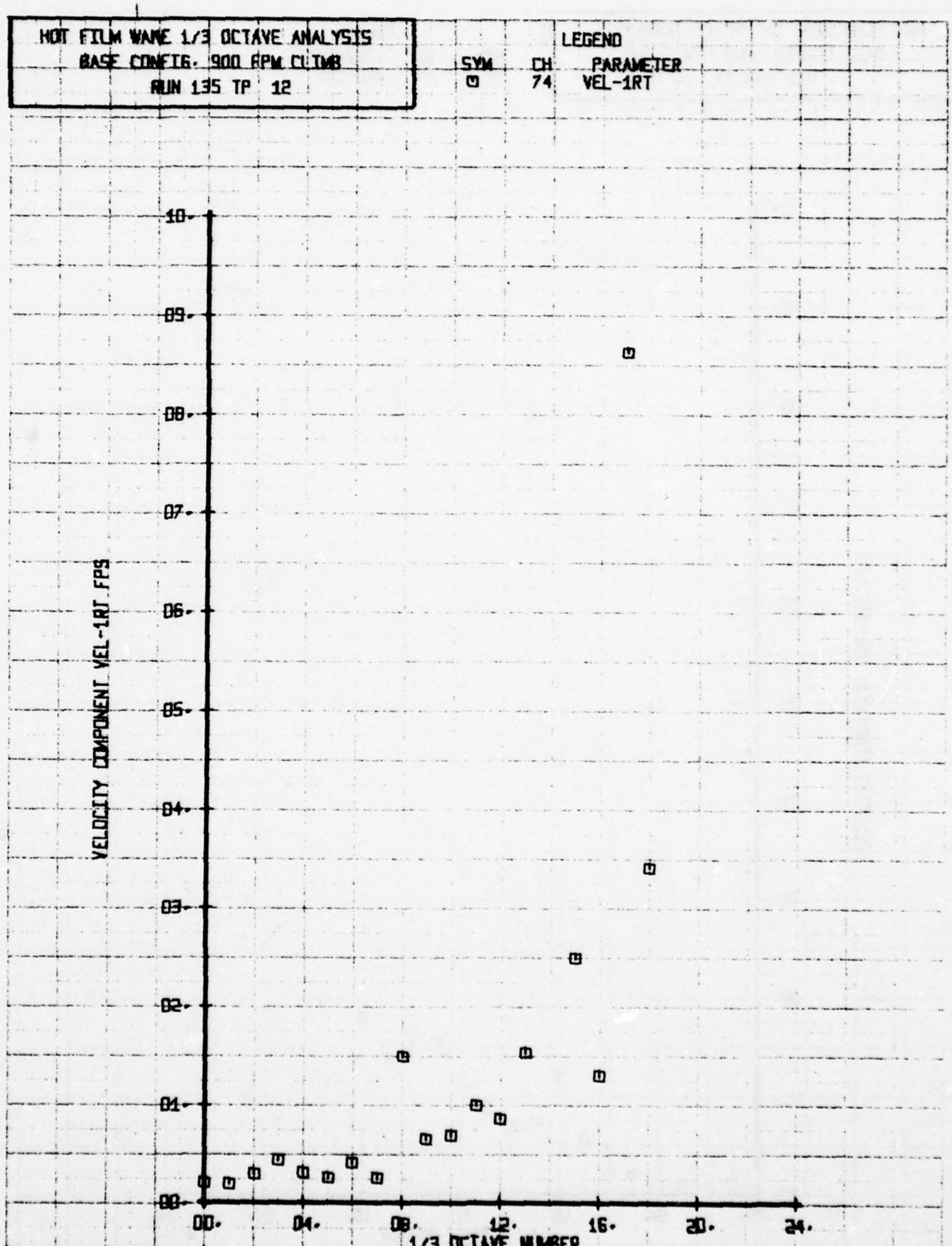
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RUN 135 TP 12
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VELOCITY COMPONENT VEL-1RT FPS
1/3 OCTAVE NUMBER
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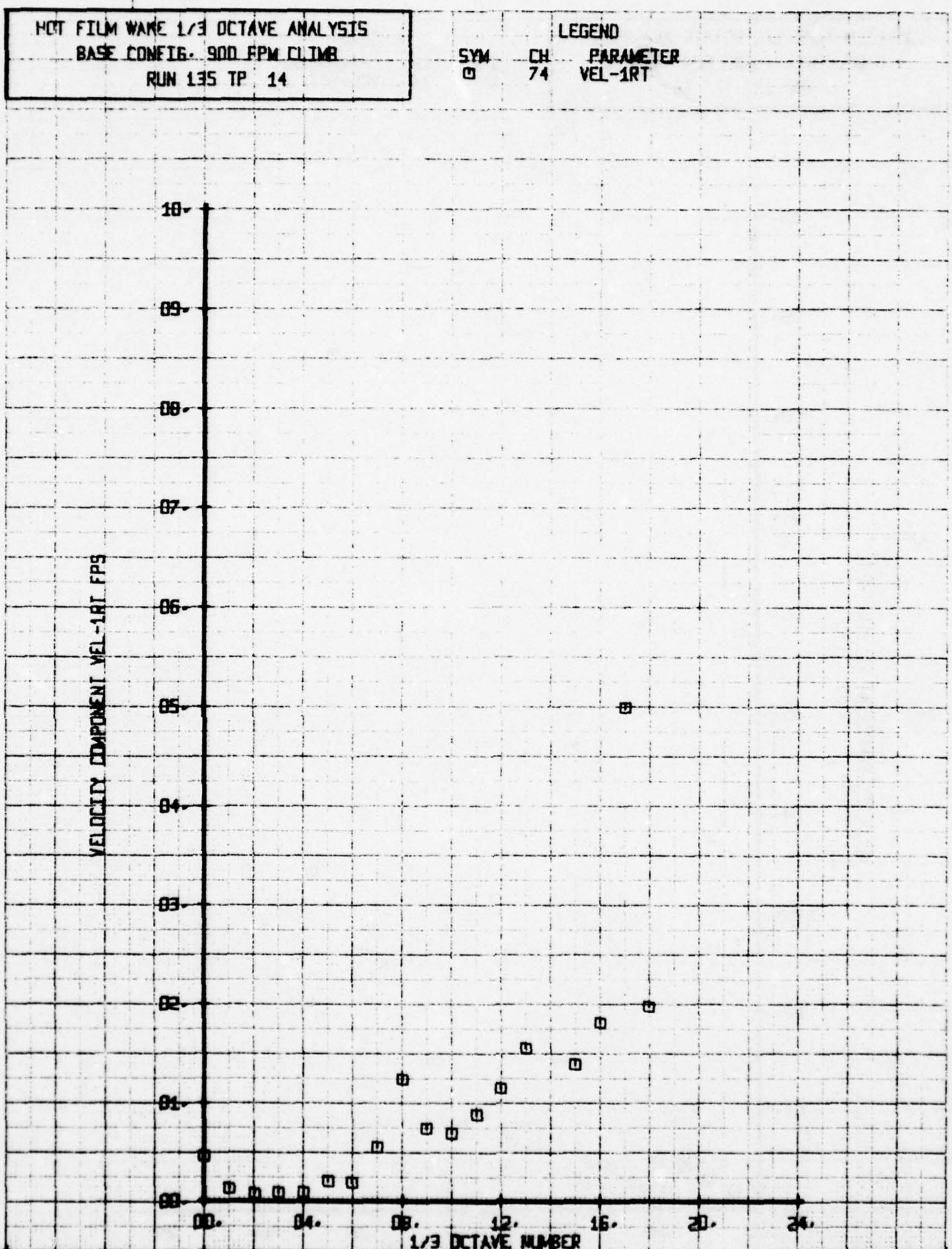

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BASE CONFIG. 900 FPM CLIMB
RUN 135 TP 14
LEGEND
SYM CH PARAMETER
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VELOCITY COMPONENT VEL-1RT FPS
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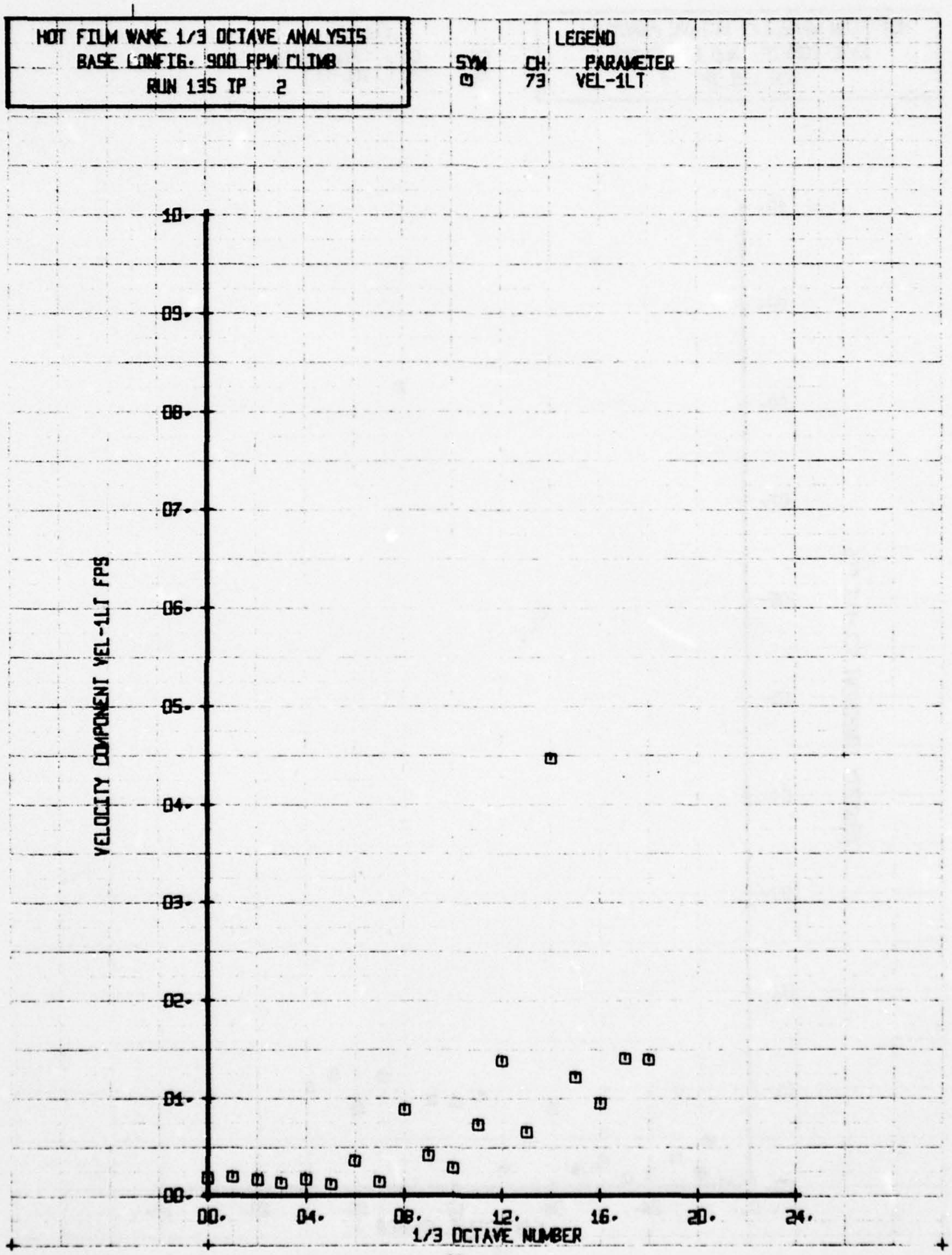
1/3 OCTAVE NUMBER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BASE CONFIG. 900 FPM CLIMB
RUN 135 TP 2
LEGEND
SYM CH PARAMETER
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VELOCITY COMPONENT VEL-1LT FPS
1/3 OCTAVE NUMBER
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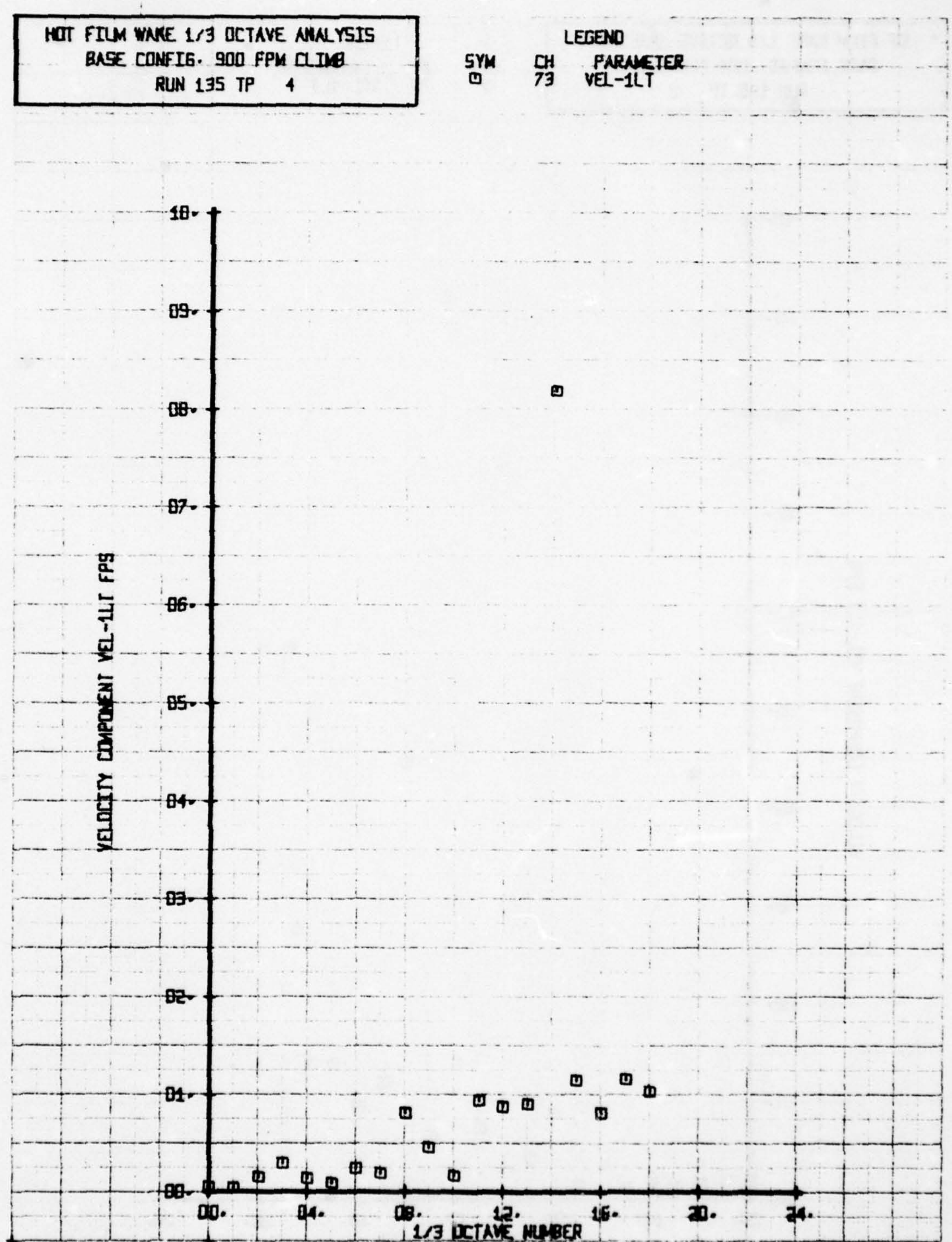
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BASE CONFIG. 900 FPM CLIMB
RUN 135 TP 4
LEGEND
SYM CH PARAMETER
73 VEL-1LT
VELOCITY COMPONENT VEL-1LT FPS
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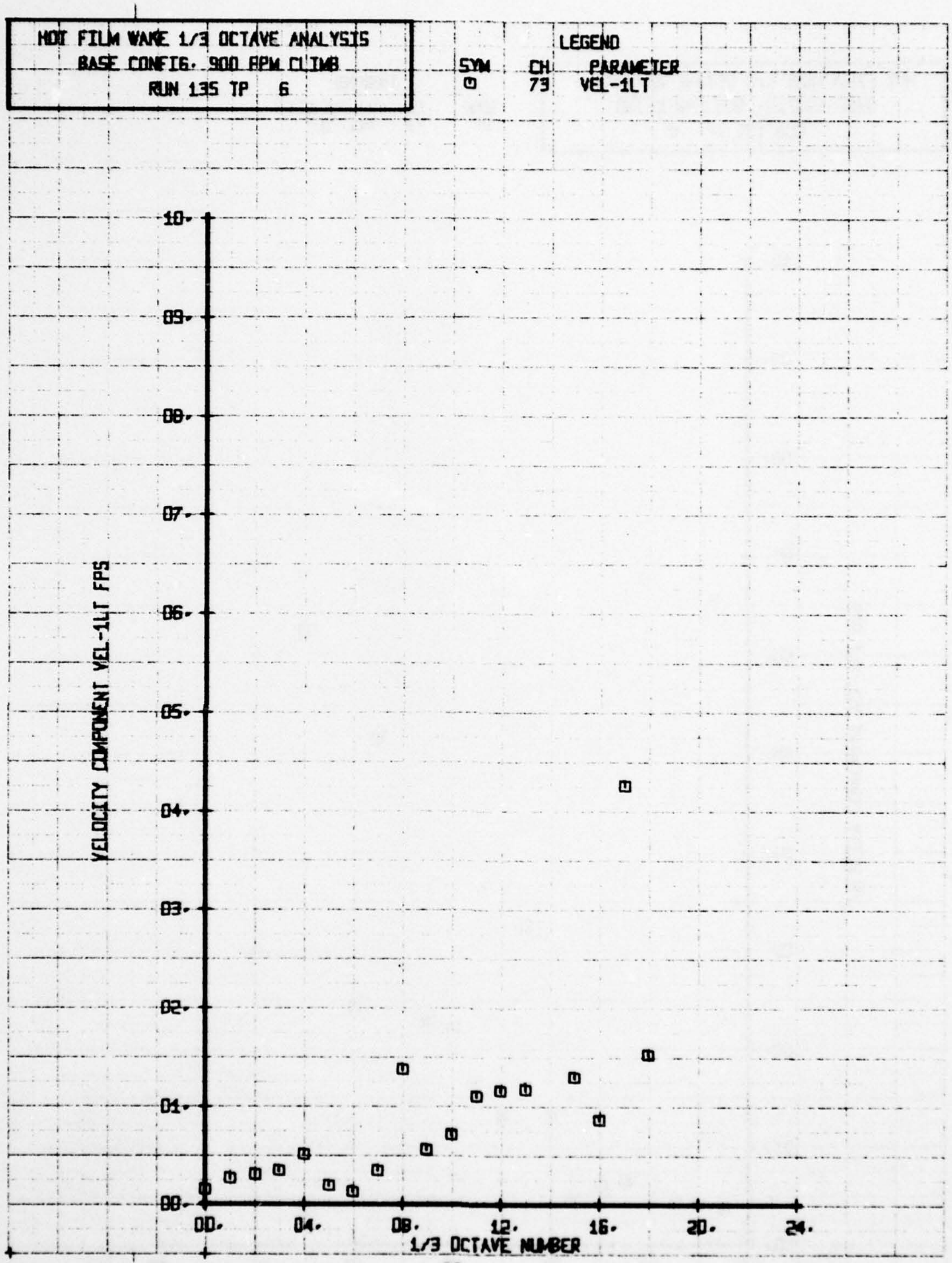
1/3 OCTAVE NUMBER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BASE CONFIG. 900 FPM CLIMB
RUN 135 TP 6
LEGEND
SYM CH PARAMETER
73 VEL-1LT
VELOCITY COMPONENT VEL-1LT FPS
1/3 OCTAVE NUMBER
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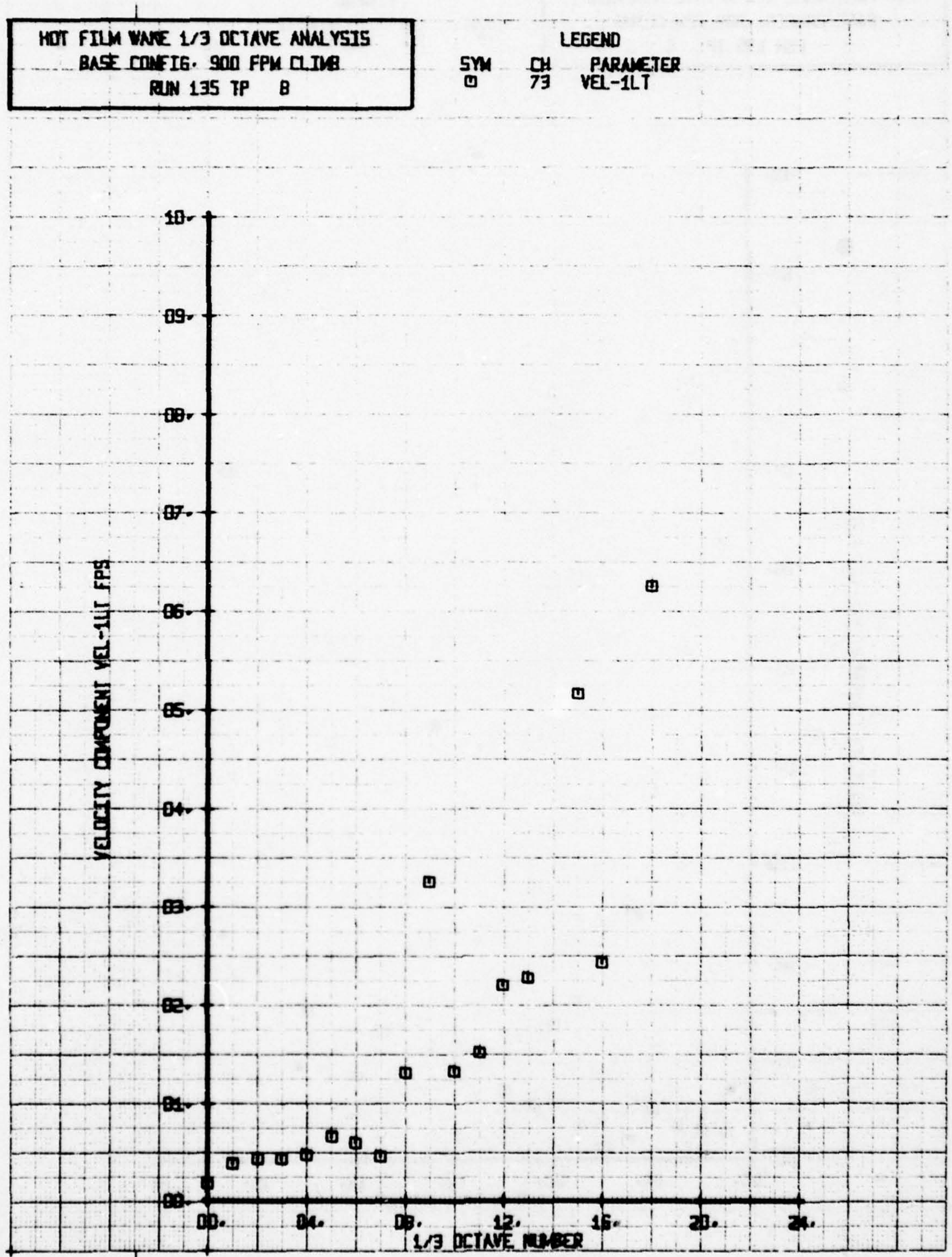
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BASE CONFIG. 900 FPM CLIMB
RUN 135 TP 8
LEGEND
SYM CH PARAMETER
73 VEL-1LT
VELOCITY COMPONENT VEL-1LT FPS
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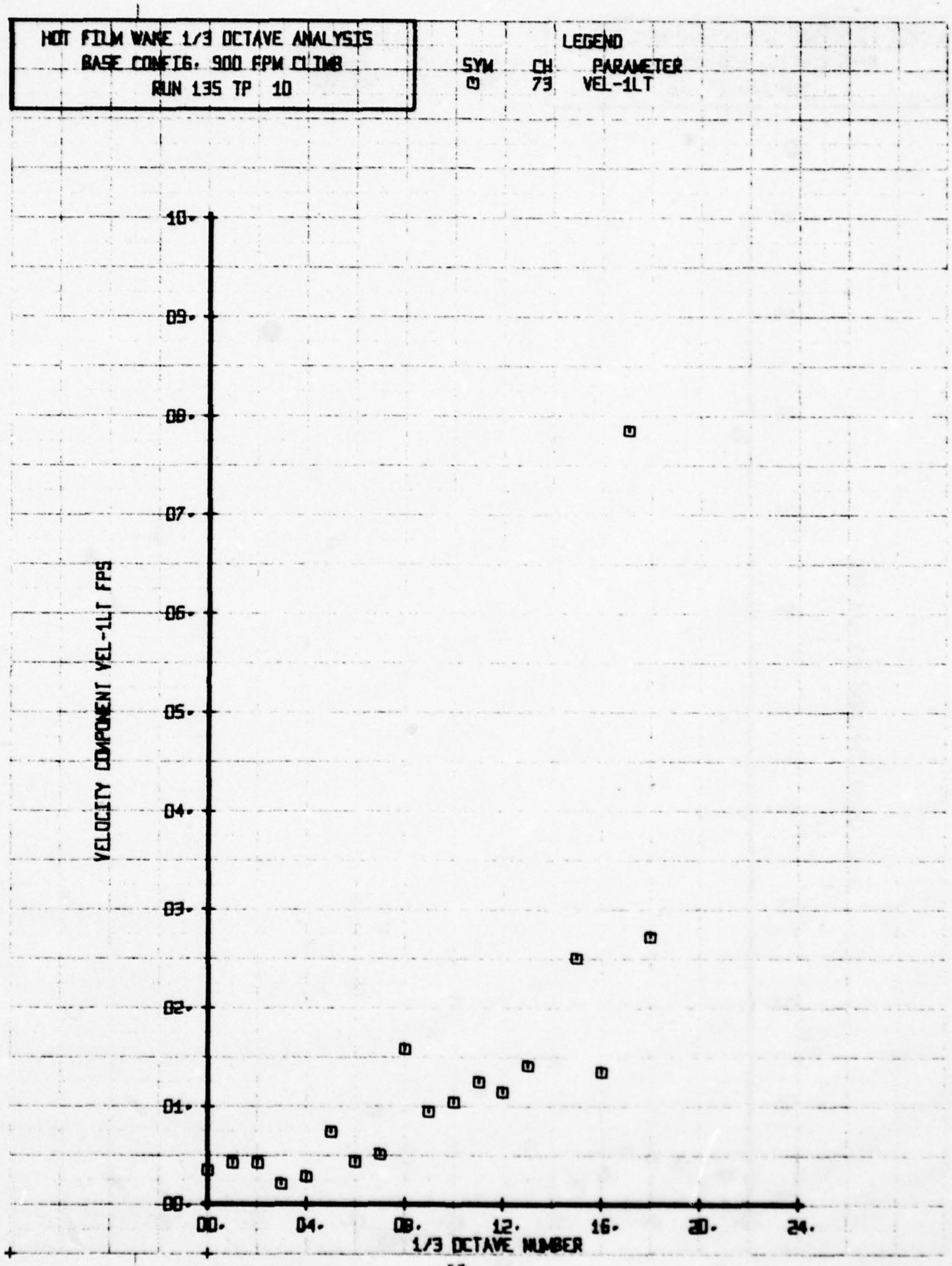
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
BASE CONFIG. 900 FPM CLIMB
RUN 135 TP 10
LEGEND
SYM CH PARAMETER
73 VEL-1LT
VELOCITY COMPONENT VEL-1LT FPS
1/3 OCTAVE NUMBER
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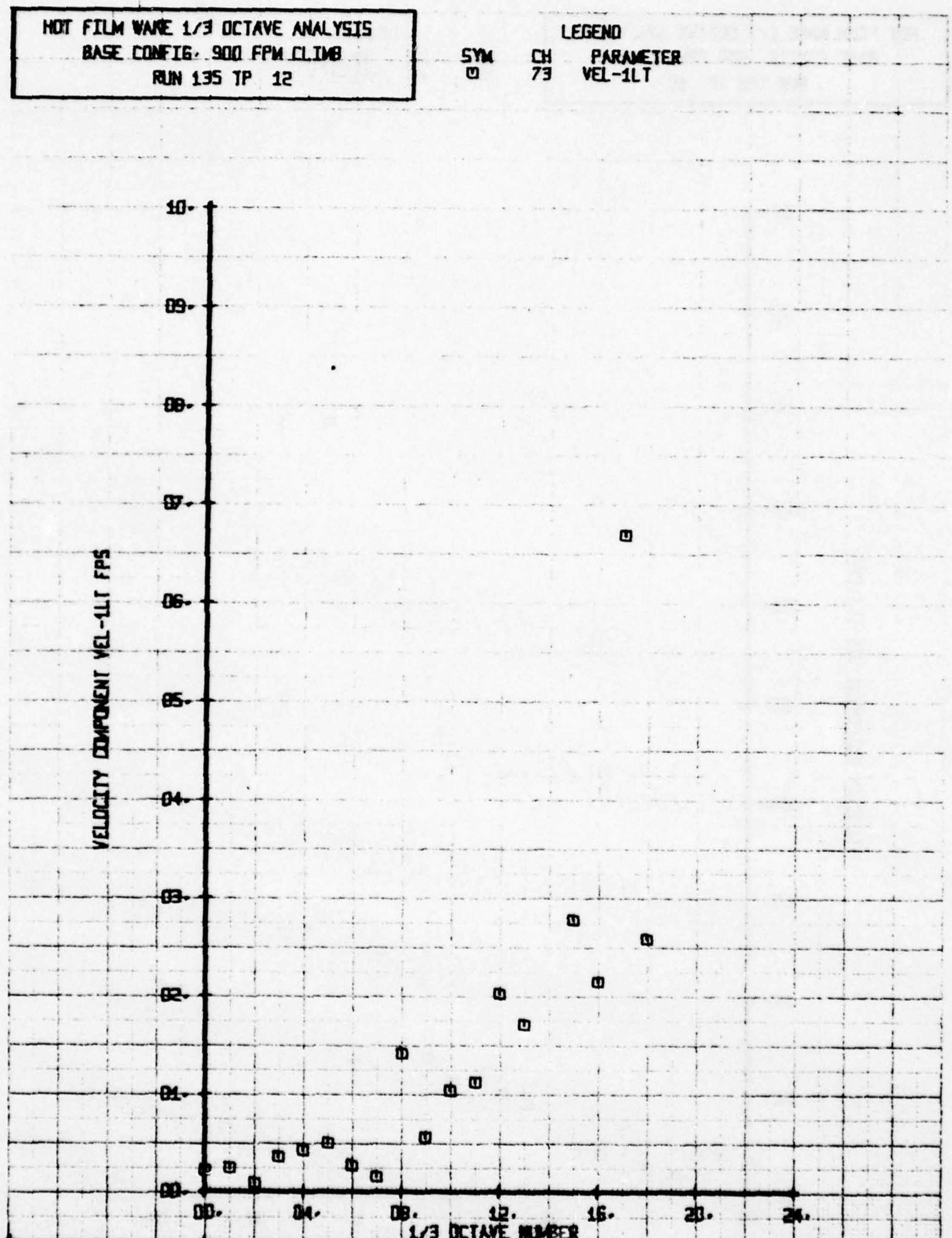

HOT FILM WAKE 1/3 OCTAVE ANALYSIS
BASE CONFIG, 900 FPM CLIMB
RUN 135 TP 12
LEGEND
SYM CH PARAMETER
73 VEL-1LT
VELOCITY COMPONENT VEL-1LT FPS
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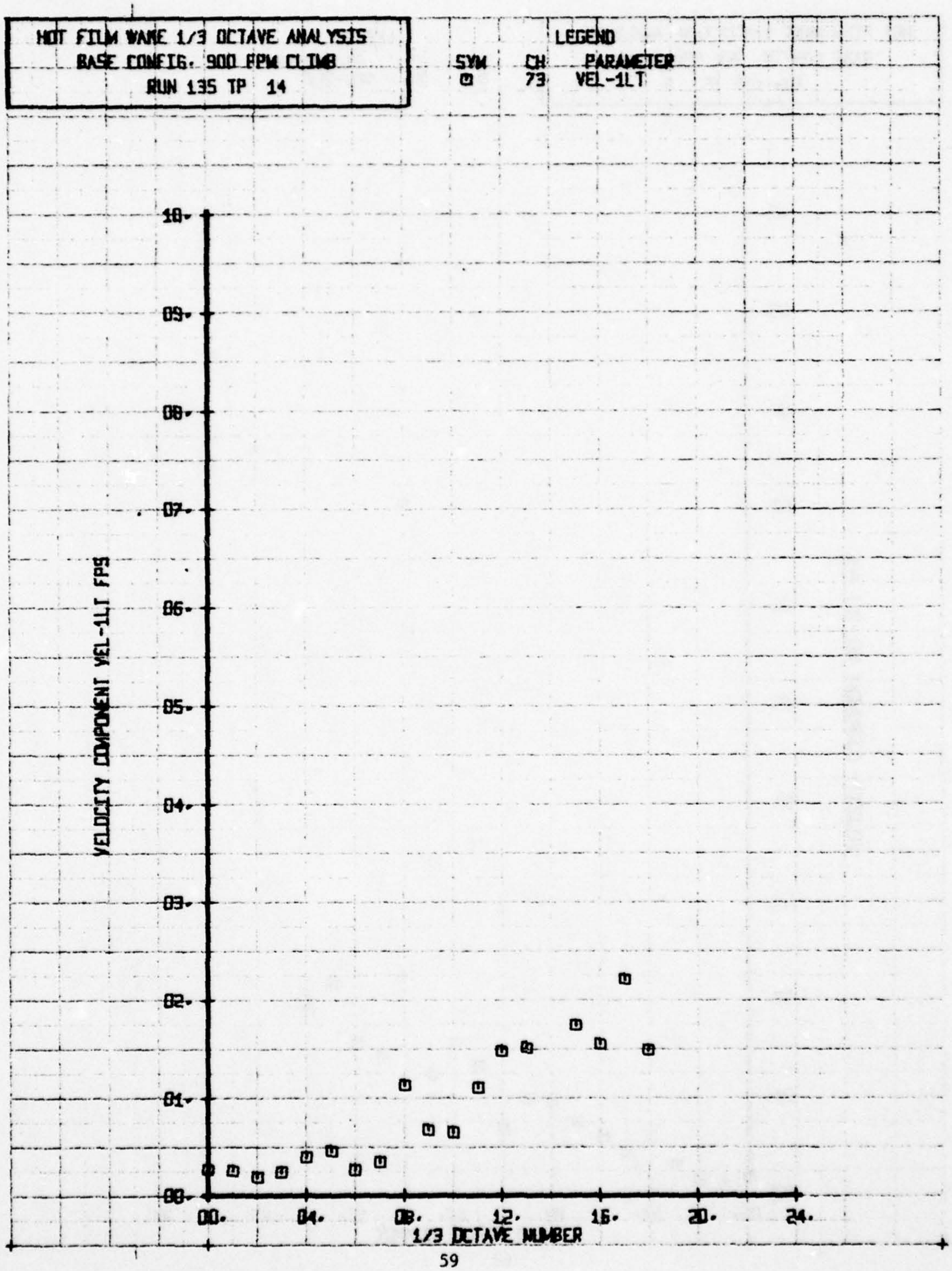
1/3 OCTAVE NUMBER



HOT FILM WAKE 1/3 OCTAVE ANALYSIS
BASE CONFIG. 900 FPM CLIMB
RUN 135 TP 14
LEGEND
SYM CH PARAMETER
73 VEL-1LT
VELOCITY COMPONENT VEL-1LT FPS
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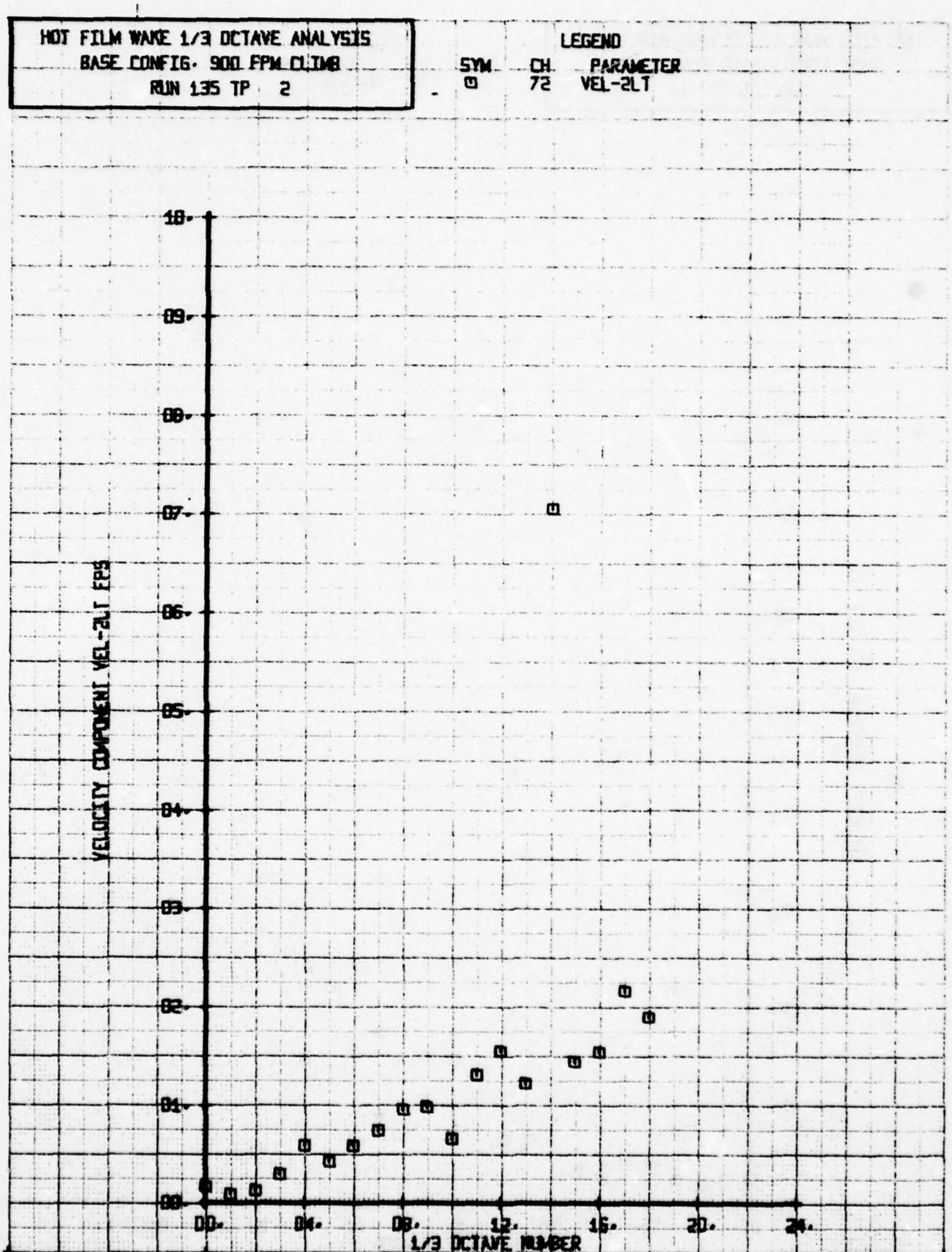
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RUN 135 TP 2
LEGEND
SYM. CH. PARAMETER
72 VEL-2LT
VELOCITY COMPONENT VEL-2LT FPS
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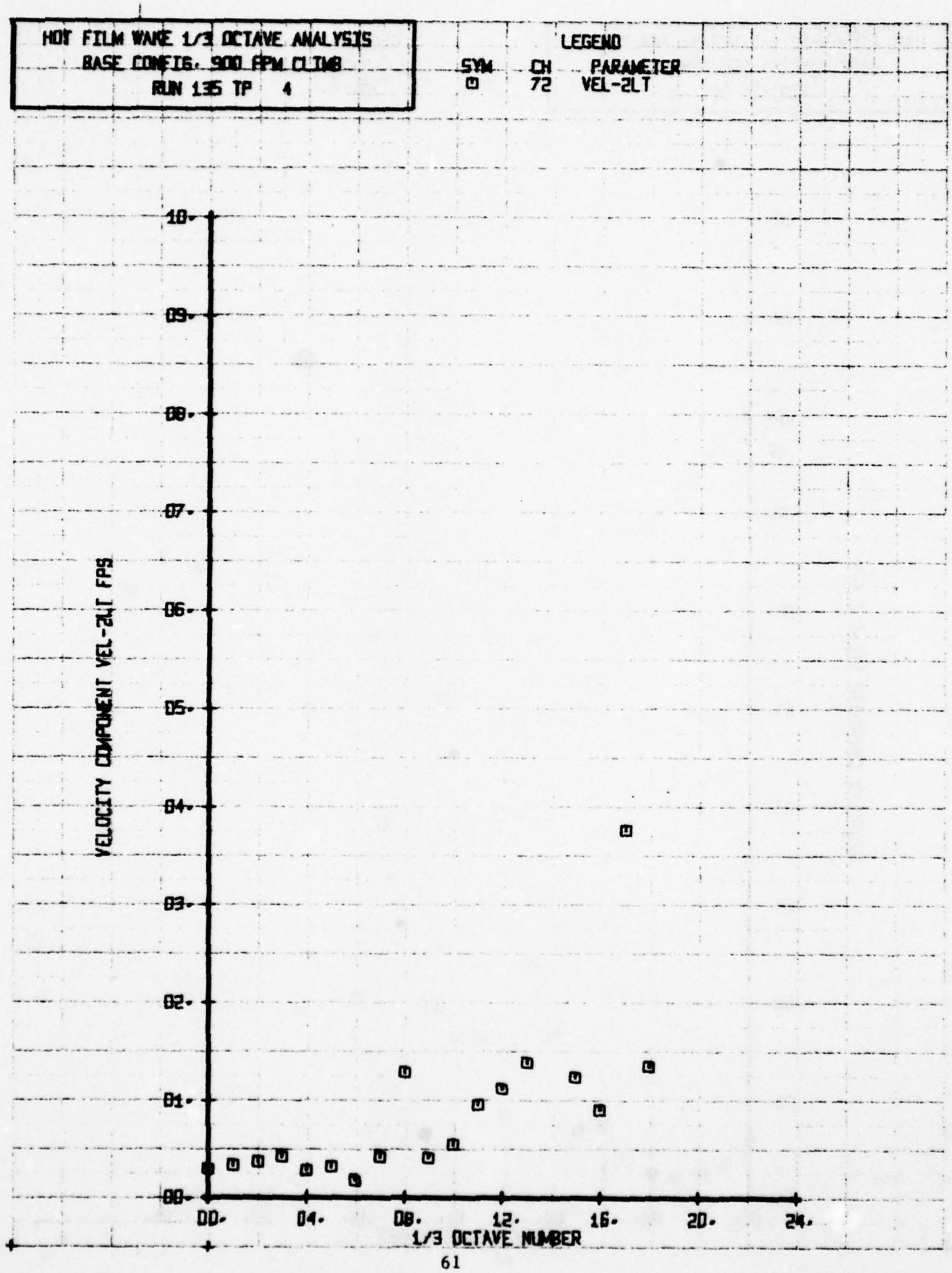
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
BASE CONFIG. 900 FPM CLIMB
RUN 135 TP 4
LEGEND
SYM CH PARAMETER
72 VEL-2LT
VELOCITY COMPONENT VEL-2LT FPS
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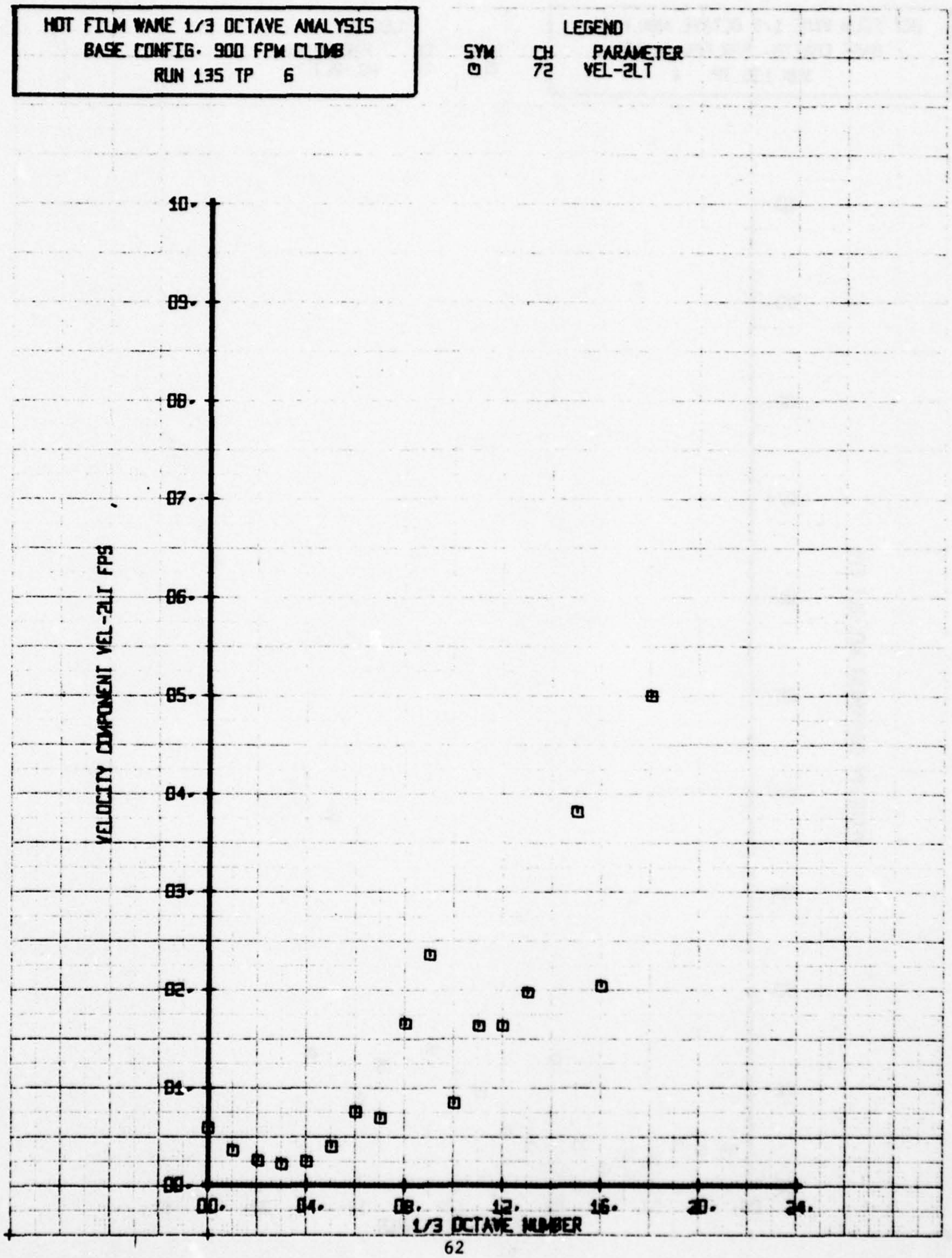
1/3 OCTAVE NUMBER



HOT FILM WAKE 1/3 OCTAVE ANALYSIS
BASE CONFIG. 900 FPM CLIMB
RUN 135 TP 6
LEGEND
SYM CH PARAMETER
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VELOCITY COMPONENT VEL-2LT FPS
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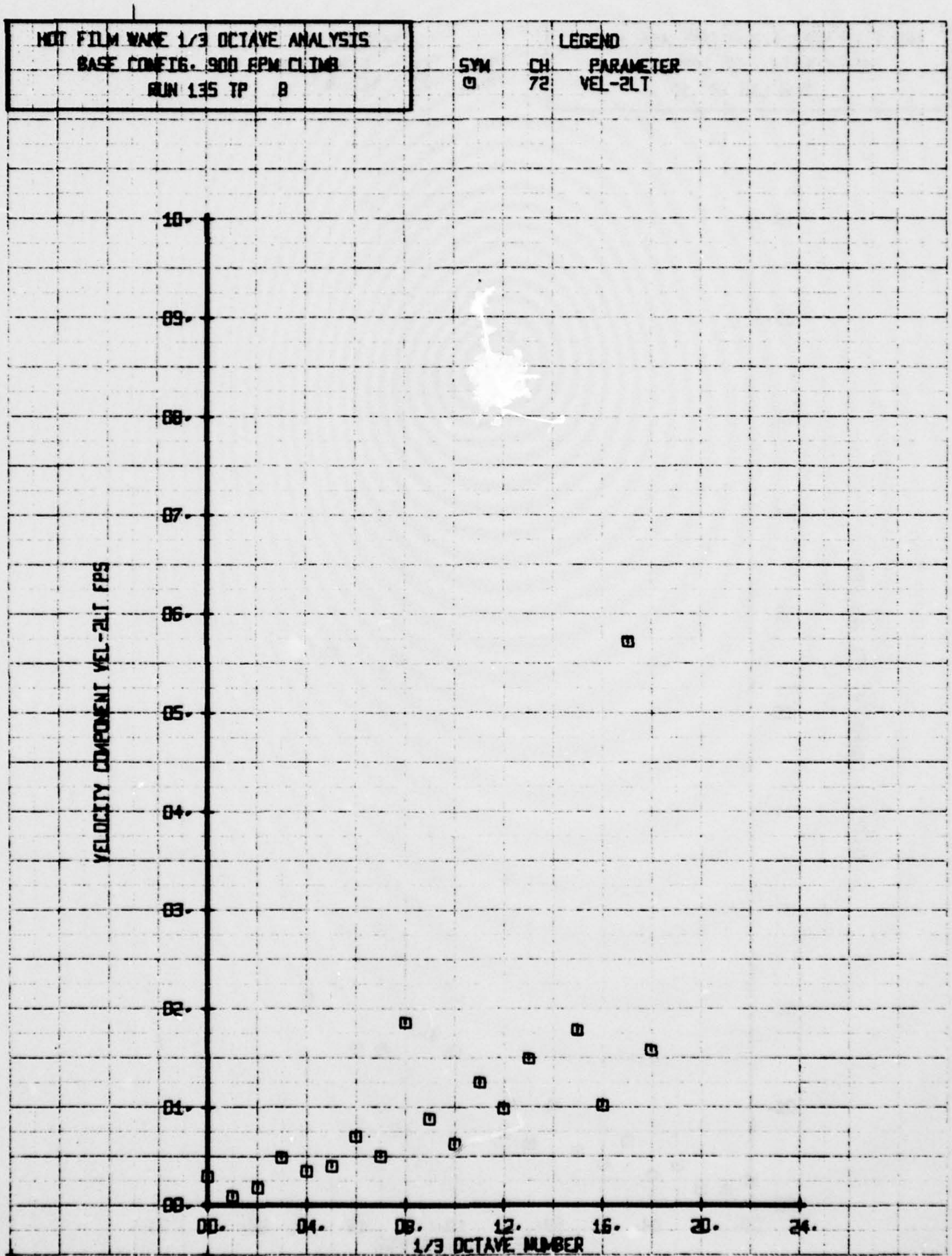
1/3 OCTAVE NUMBER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BASE CONFIG. 900 FPM CLIMB
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VELOCITY COMPONENT VEL-2LT FPS
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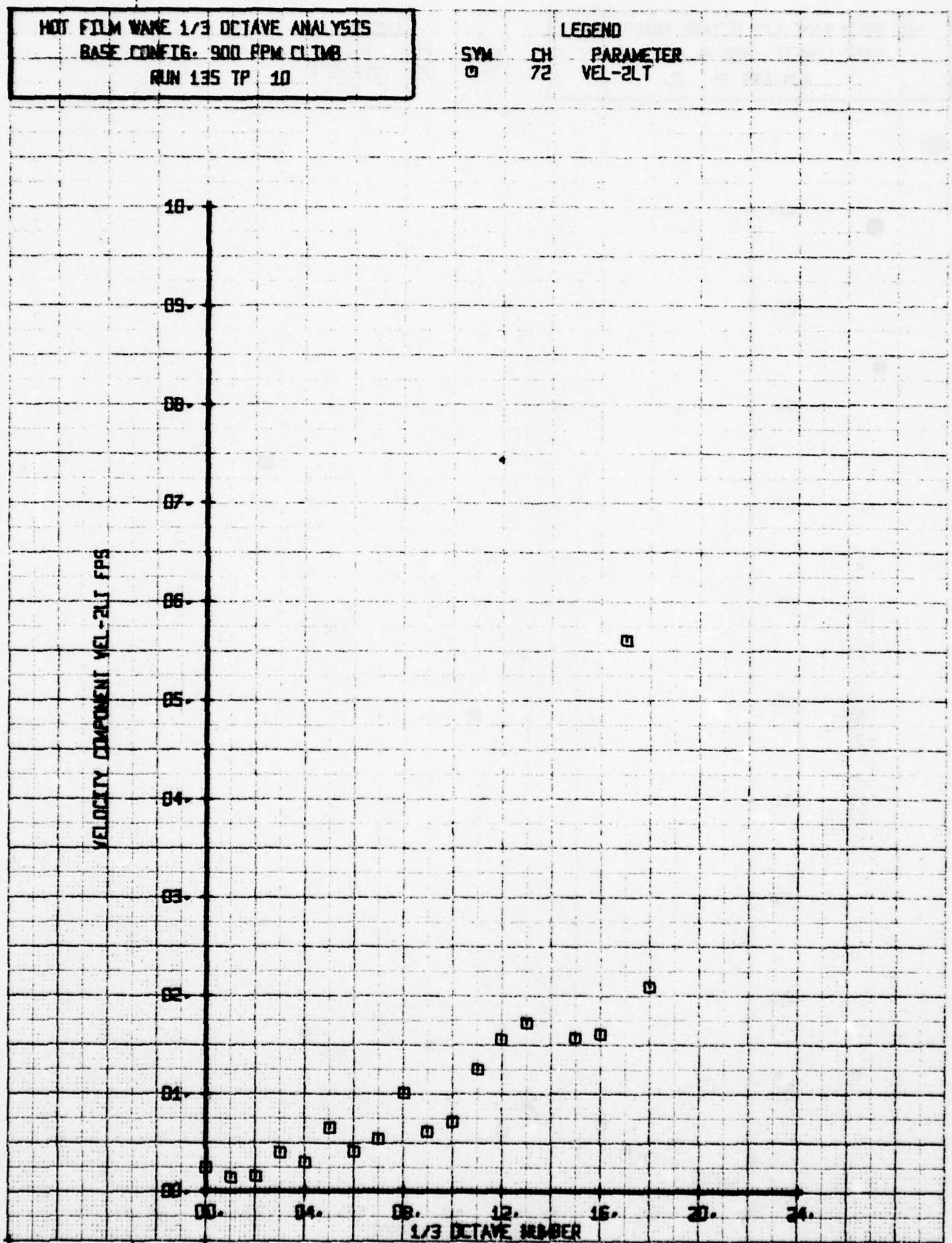
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BASE CONFIG. 900 FPM CLIMB
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VELOCITY COMPONENT VEL-2LT FPS
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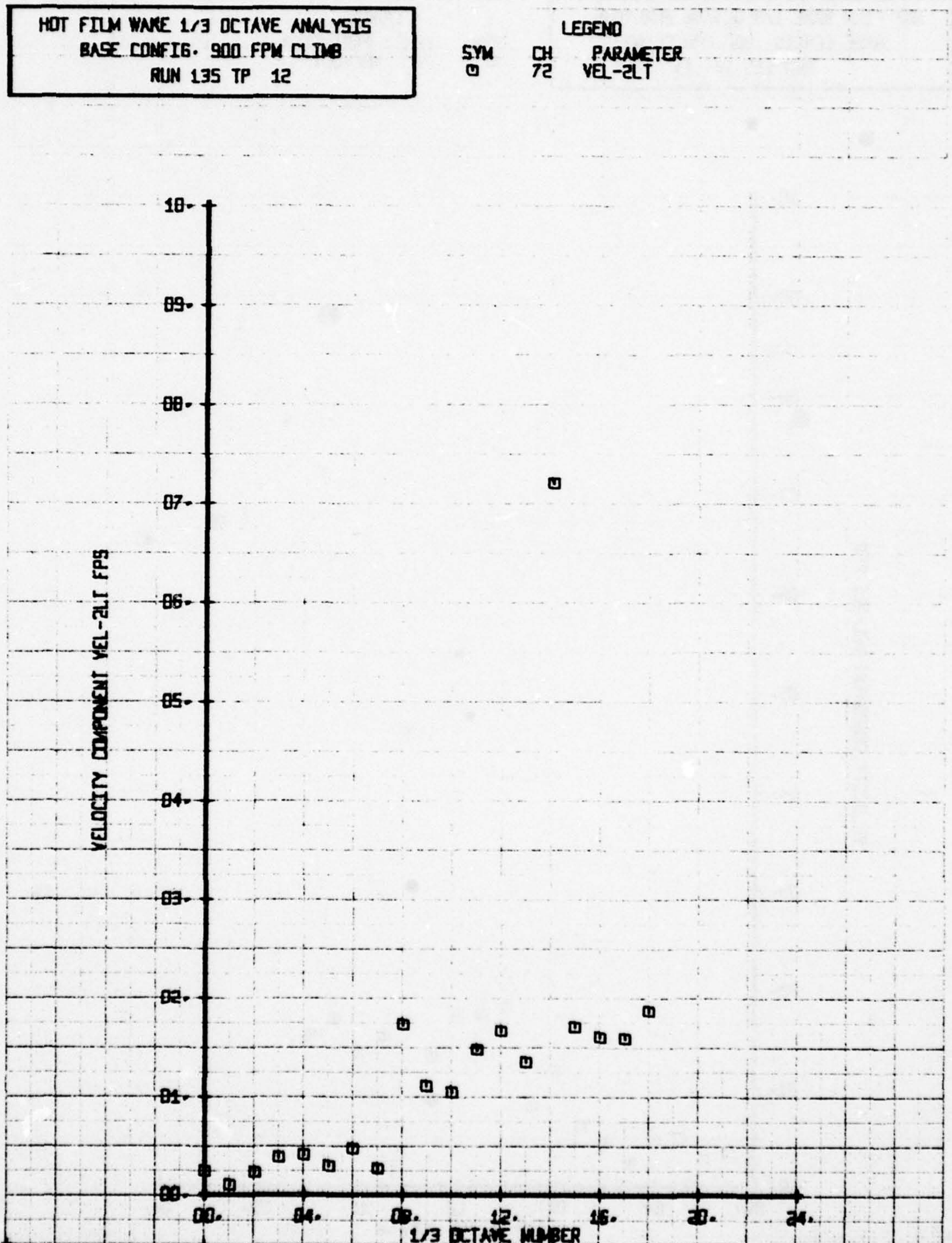
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BASE CONFIG. 900 FPM CLIMB
RUN 135 TP 12
LEGEND
SYM CH PARAMETER
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VELOCITY COMPONENT VEL-2LT FPS
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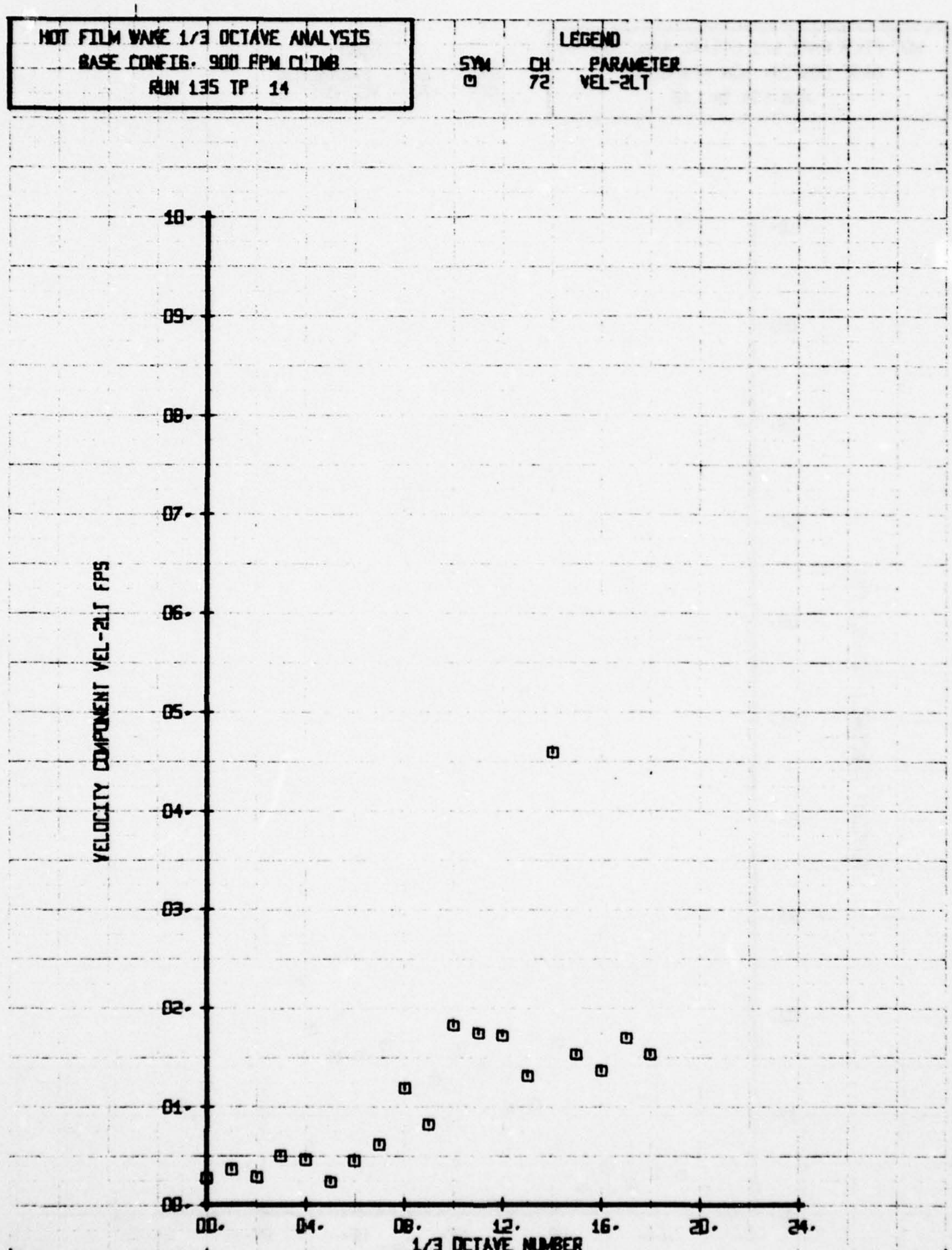
1/3 OCTAVE NUMBER



HOT FILM WAKE 1/3 OCTAVE ANALYSIS
BASE CONFIG. 900 FPM CLIMB
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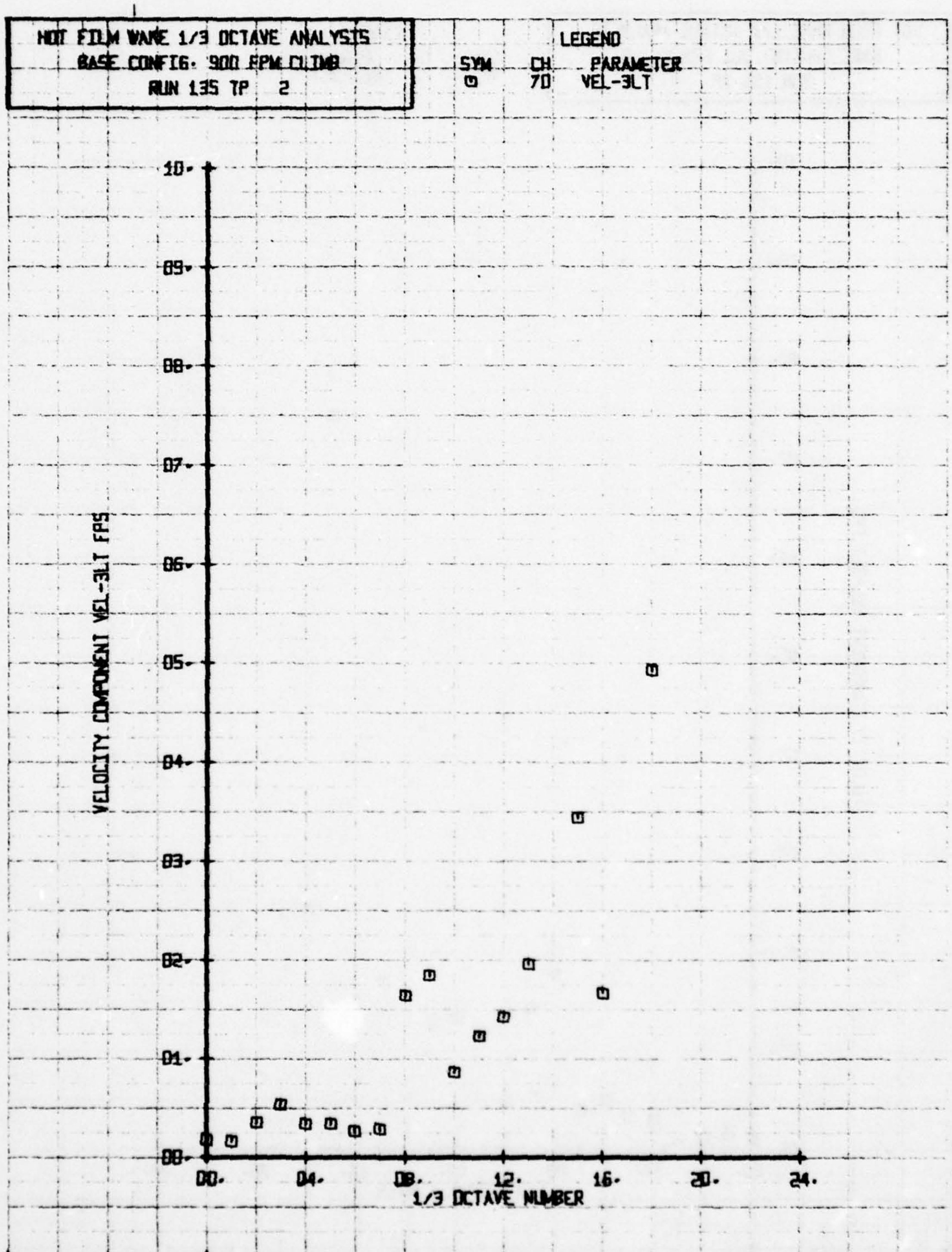
VELOCITY COMPONENT VEL-2LT FPS
1/3 OCTAVE NUMBER



HOT FILM WAKE 1/3 OCTAVE ANALYSIS
BASE CONFIG. 900 FPM CLIMB
RUN 135 TP 2
LEGEND
SYM CH PARAMETER
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VELOCITY COMPONENT VEL-3LT FPS
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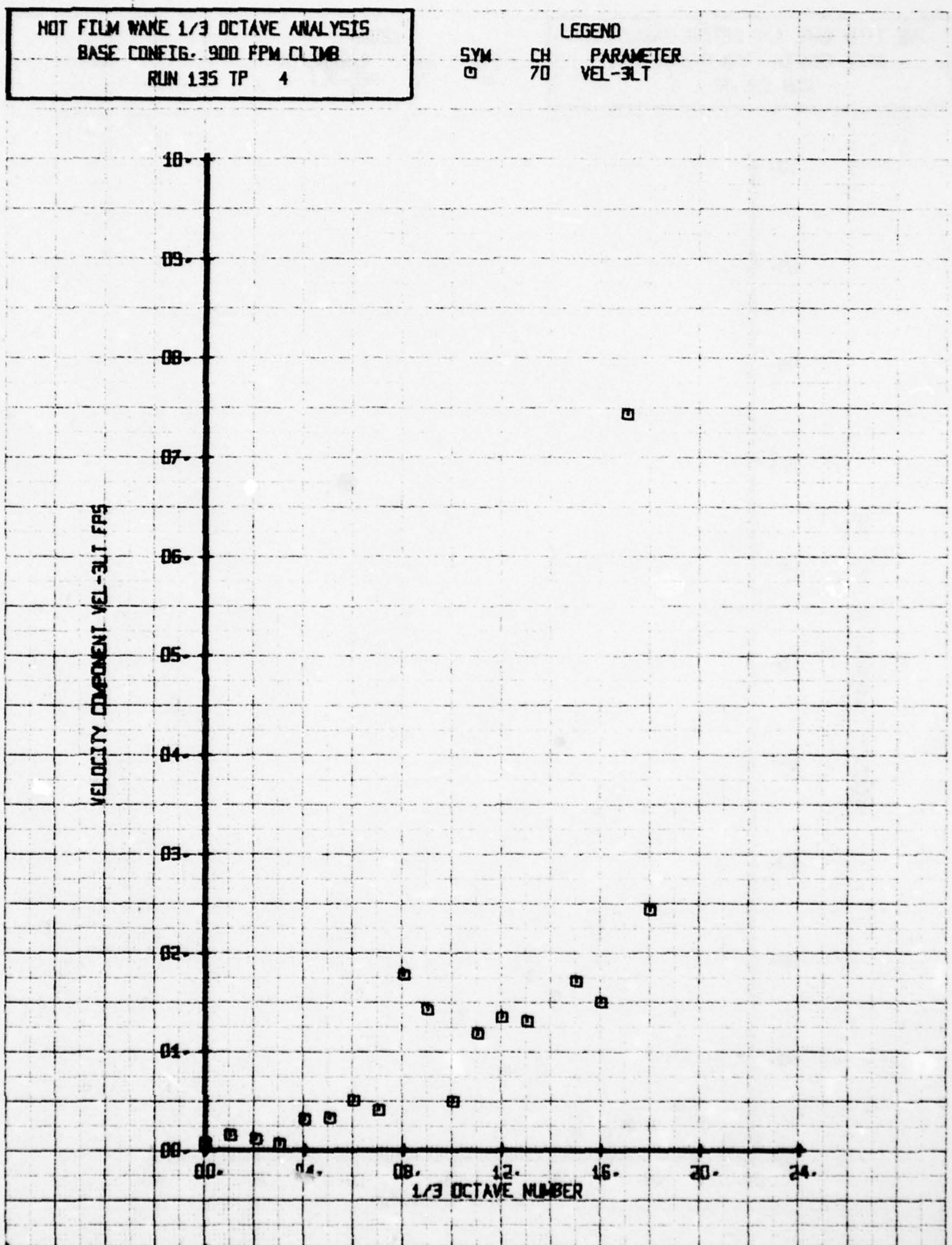
1/3 OCTAVE NUMBER



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RUN 135 TP 4
LEGEND
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VELOCITY COMPONENT VEL-3LT FPS
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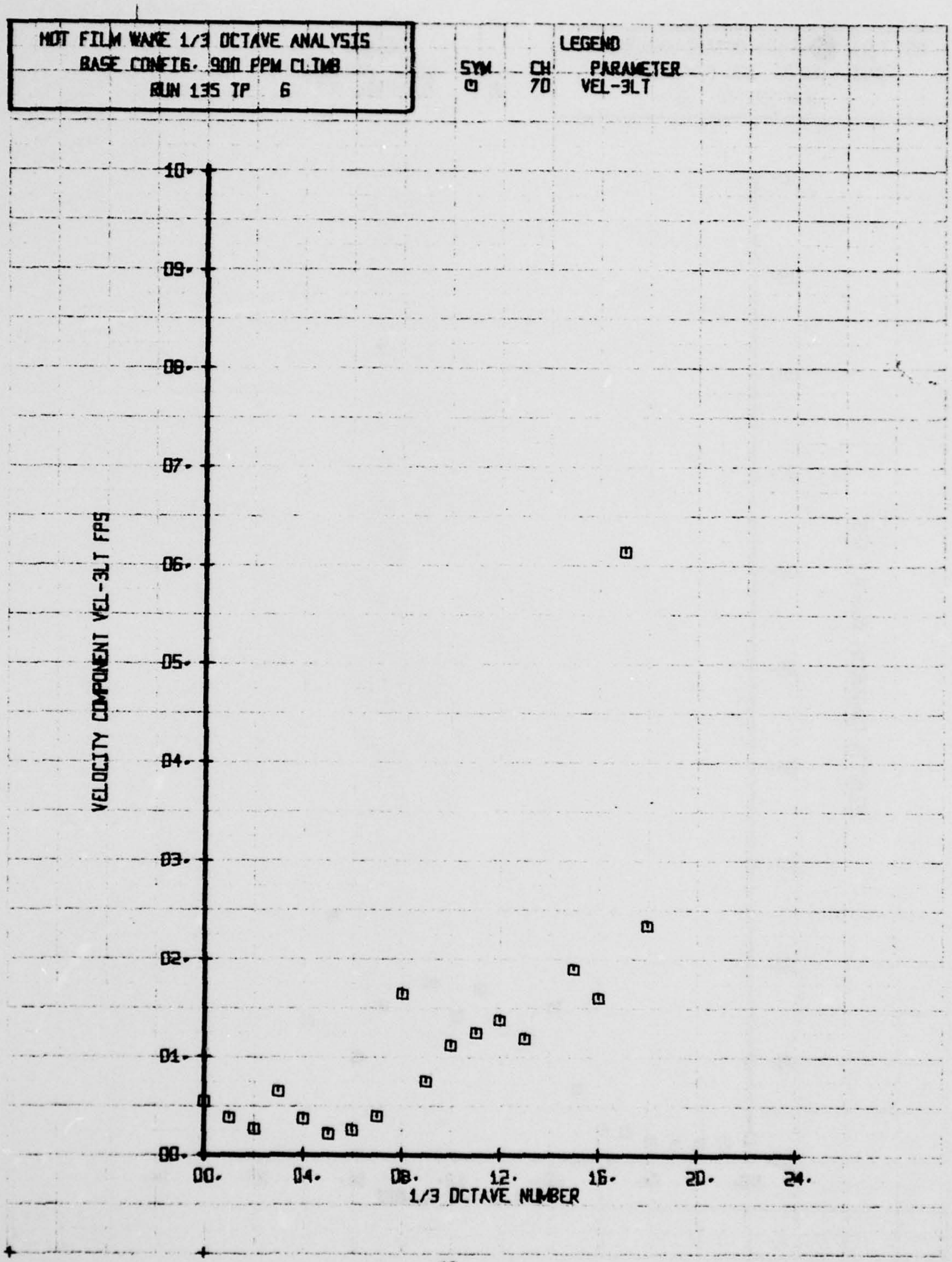
1/3 OCTAVE NUMBER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RUN 135 TP 6
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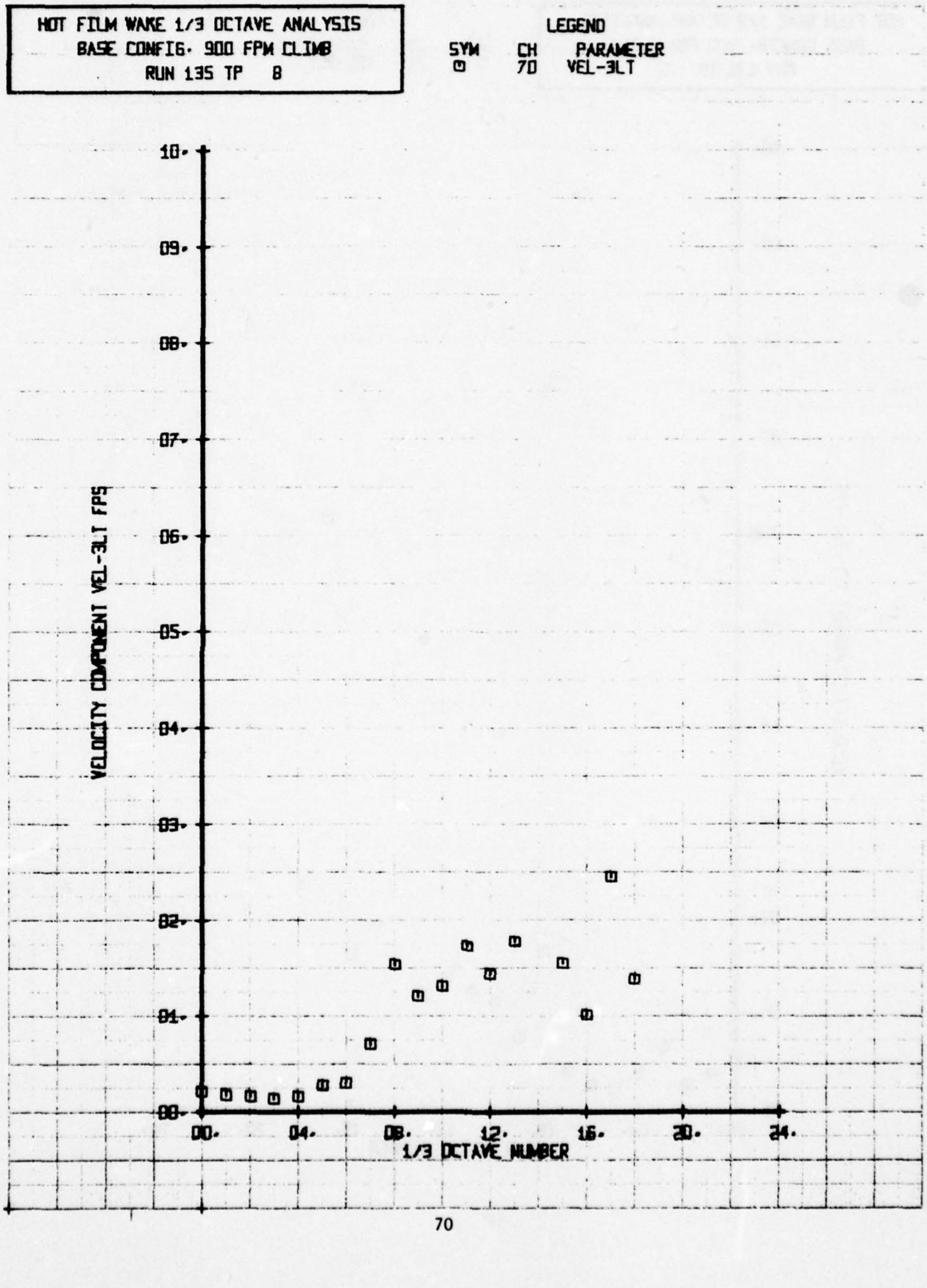
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BASE CONFIG. 900 FPM CLIMB
RUN 135 TP 8
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VELOCITY COMPONENT VEL-3LT FPS
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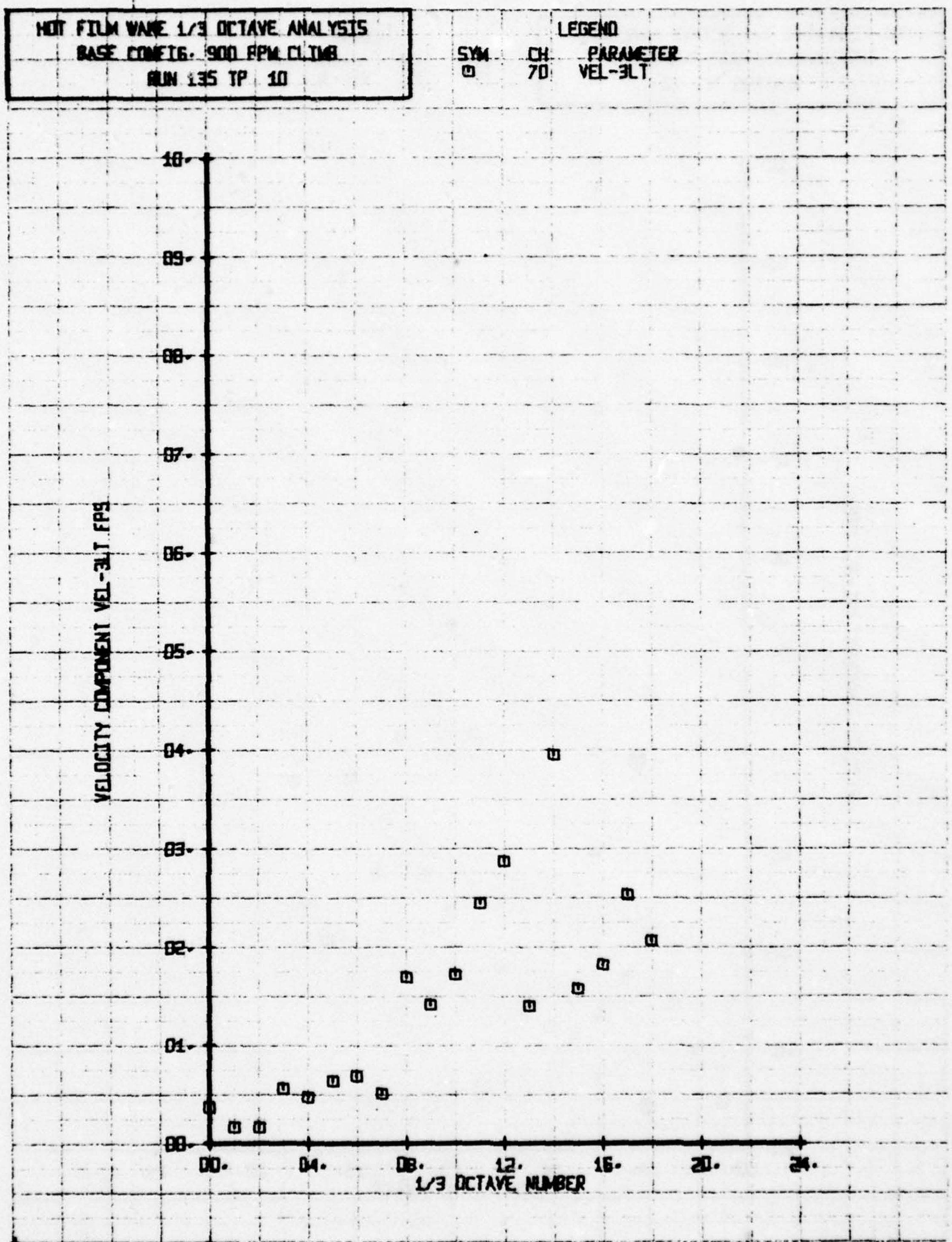
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BASE CONFIG. 900 FPM CLIMB
RUN 135 TP 10
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VELOCITY COMPONENT VEL-3LT FPS
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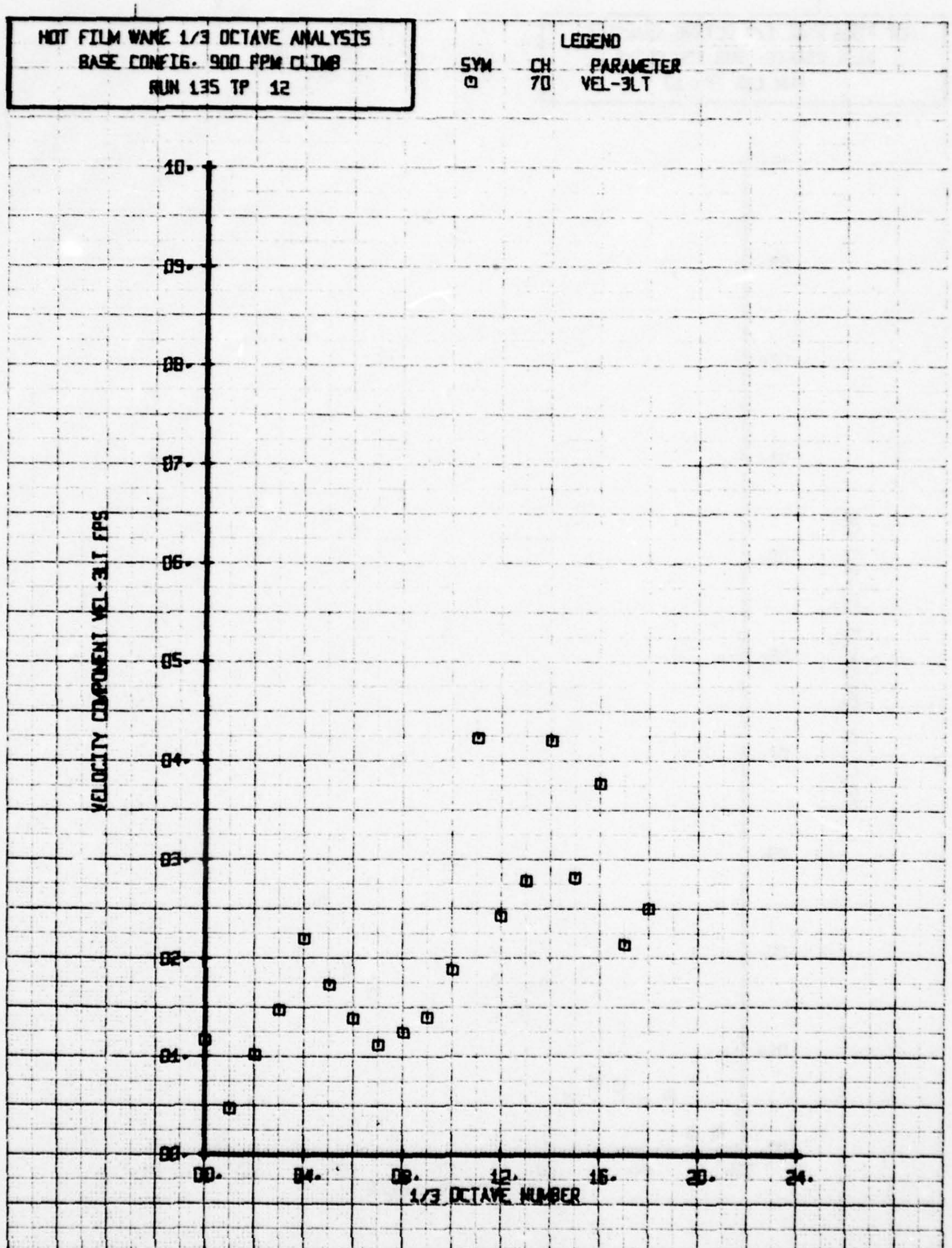
1/3 OCTAVE NUMBER



HOT FILM WAKE 1/3 OCTAVE ANALYSIS
BASE CONFIG. 900 FPM CLIMB
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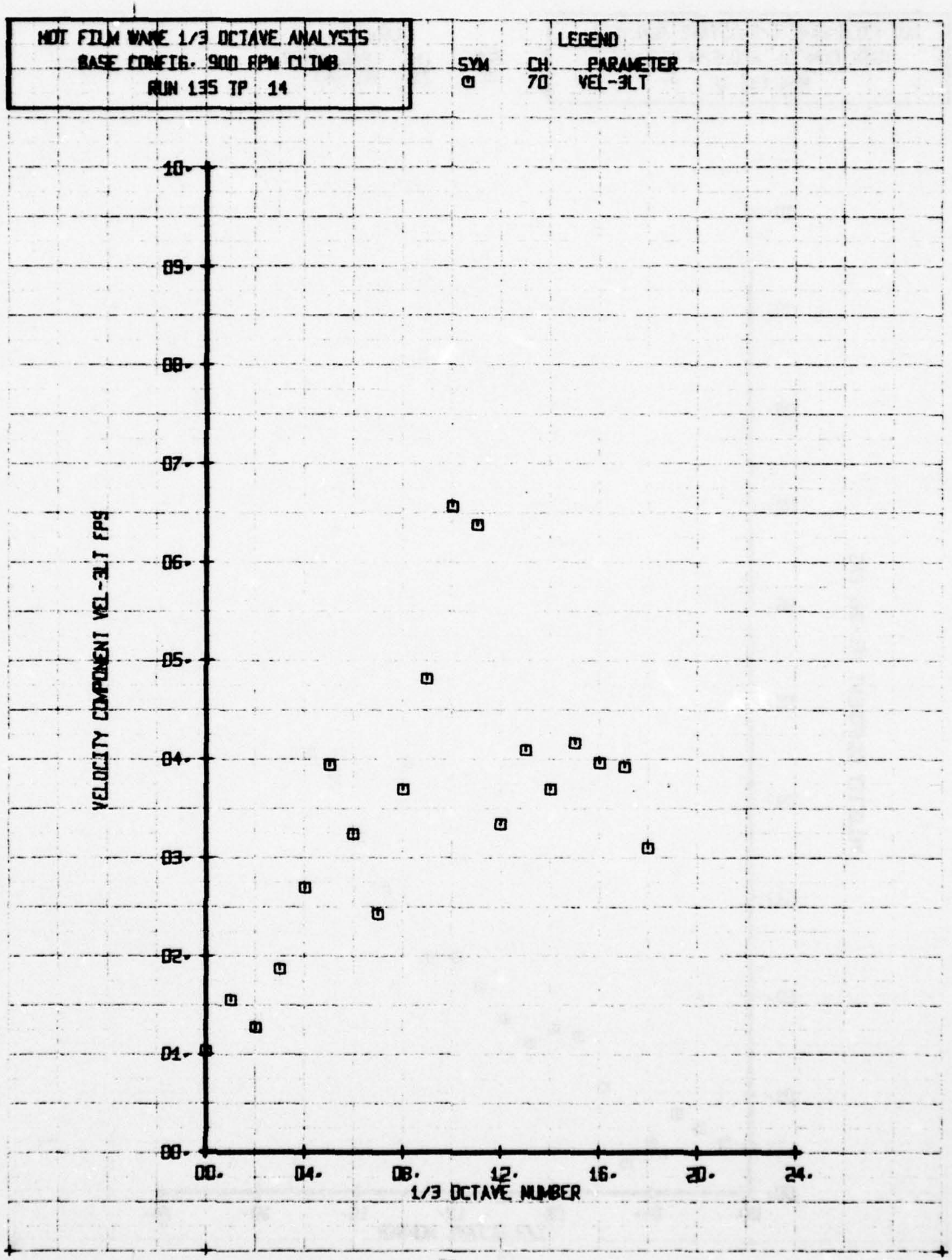
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BASE CONFIG. 900 RPM CLIMB
RUN 135 TP 14
LEGEND
SYM CH PARAMETER
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VELOCITY COMPONENT VEL-3LT FPS
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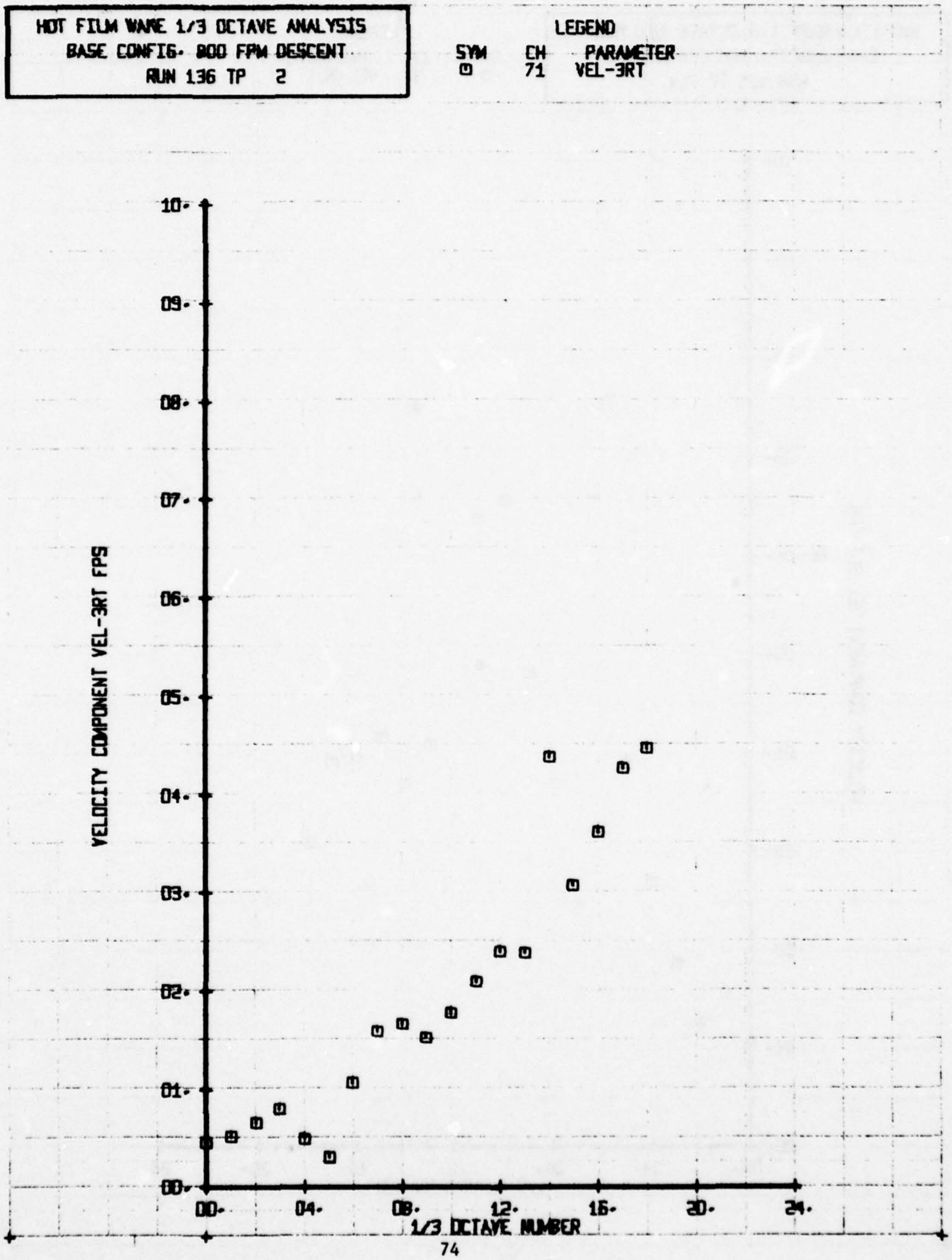
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BASE CONFIG. 800 FPM DESCENT
RUN 136 TP 2
LEGEND
SYM CH PARAMETER
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VELOCITY COMPONENT VEL-3RT FPS
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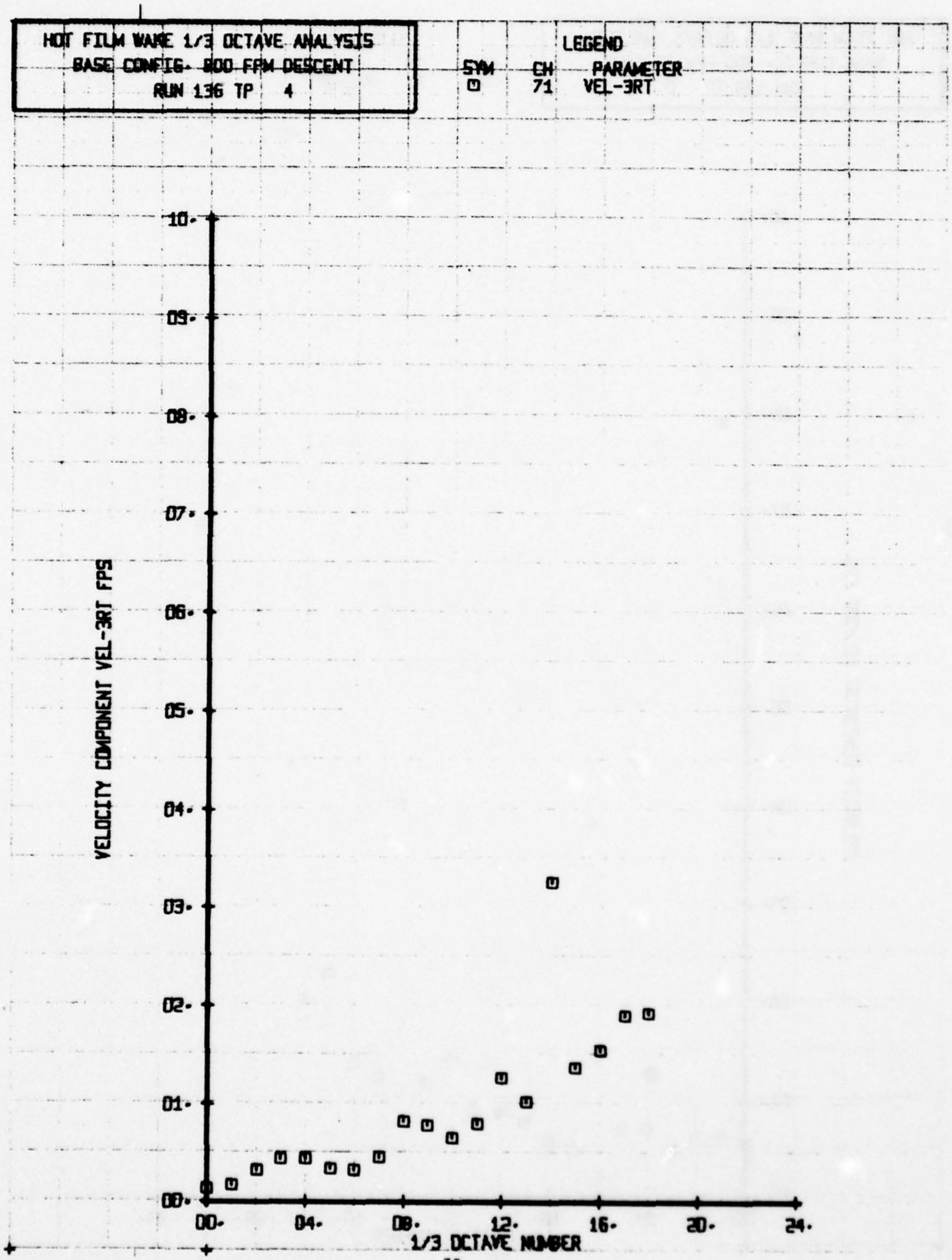
1/3 OCTAVE NUMBER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BASE CONFIG- 800 FPM DESCENT
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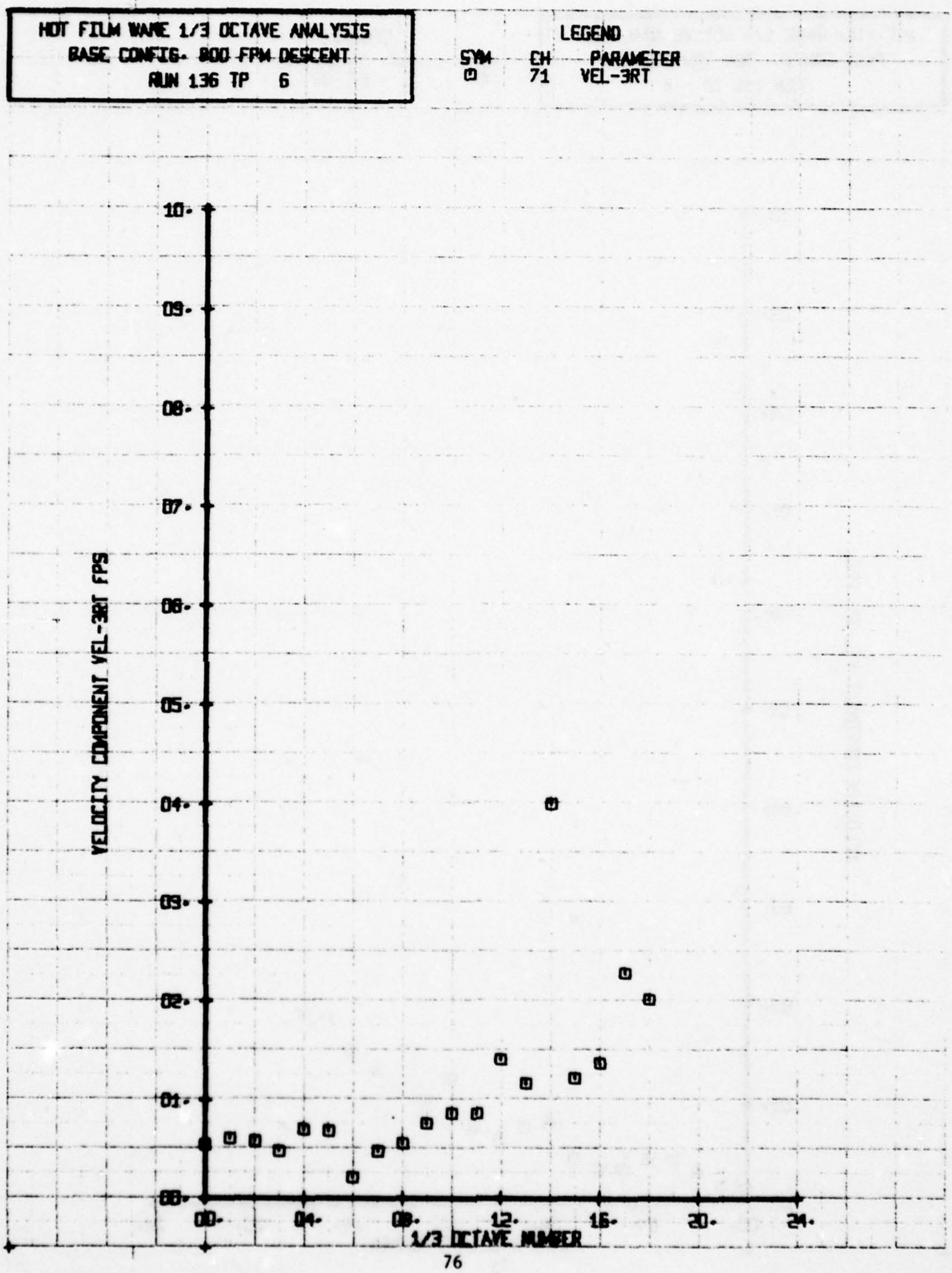
VELOCITY COMPONENT VEL-3RT FPS
1/3 OCTAVE NUMBER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BASE CONFIG. 800 FPM DESCENT
RUN 136 TP 6
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
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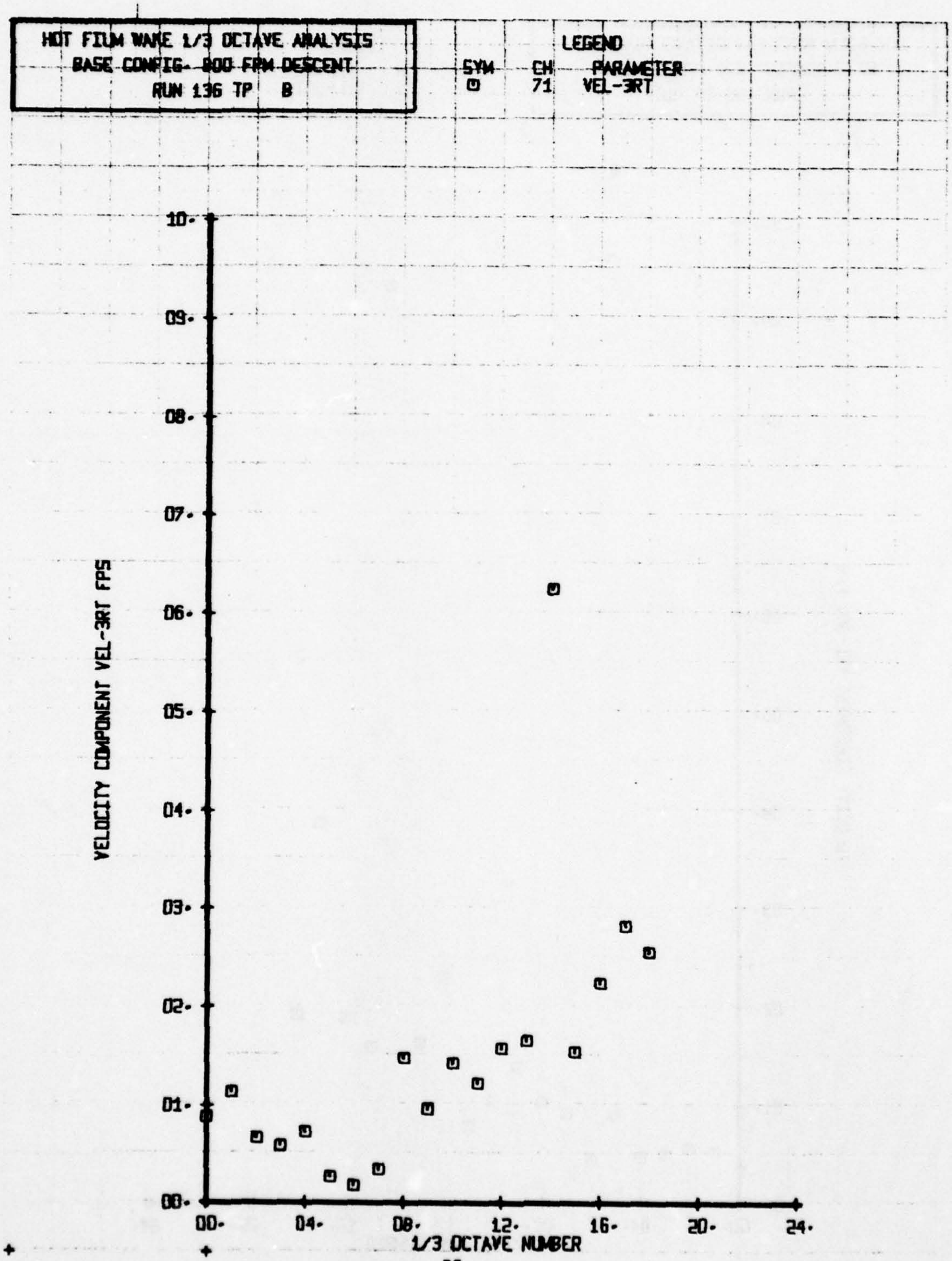
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
BASE CONFIG- 800 FPM DESCENT
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VELOCITY COMPONENT VEL-3RT FPS
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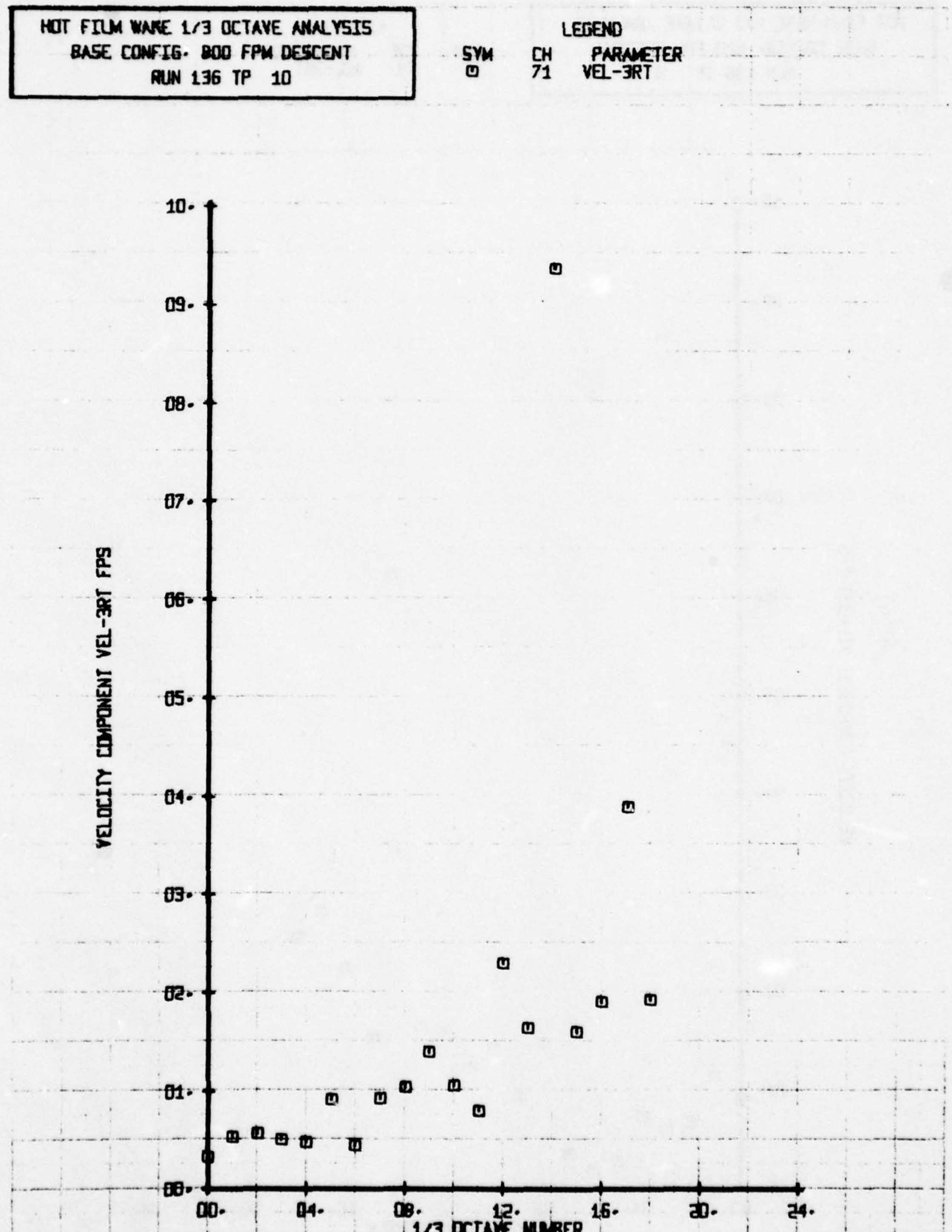
1/3 OCTAVE NUMBER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SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
1/3 OCTAVE NUMBER
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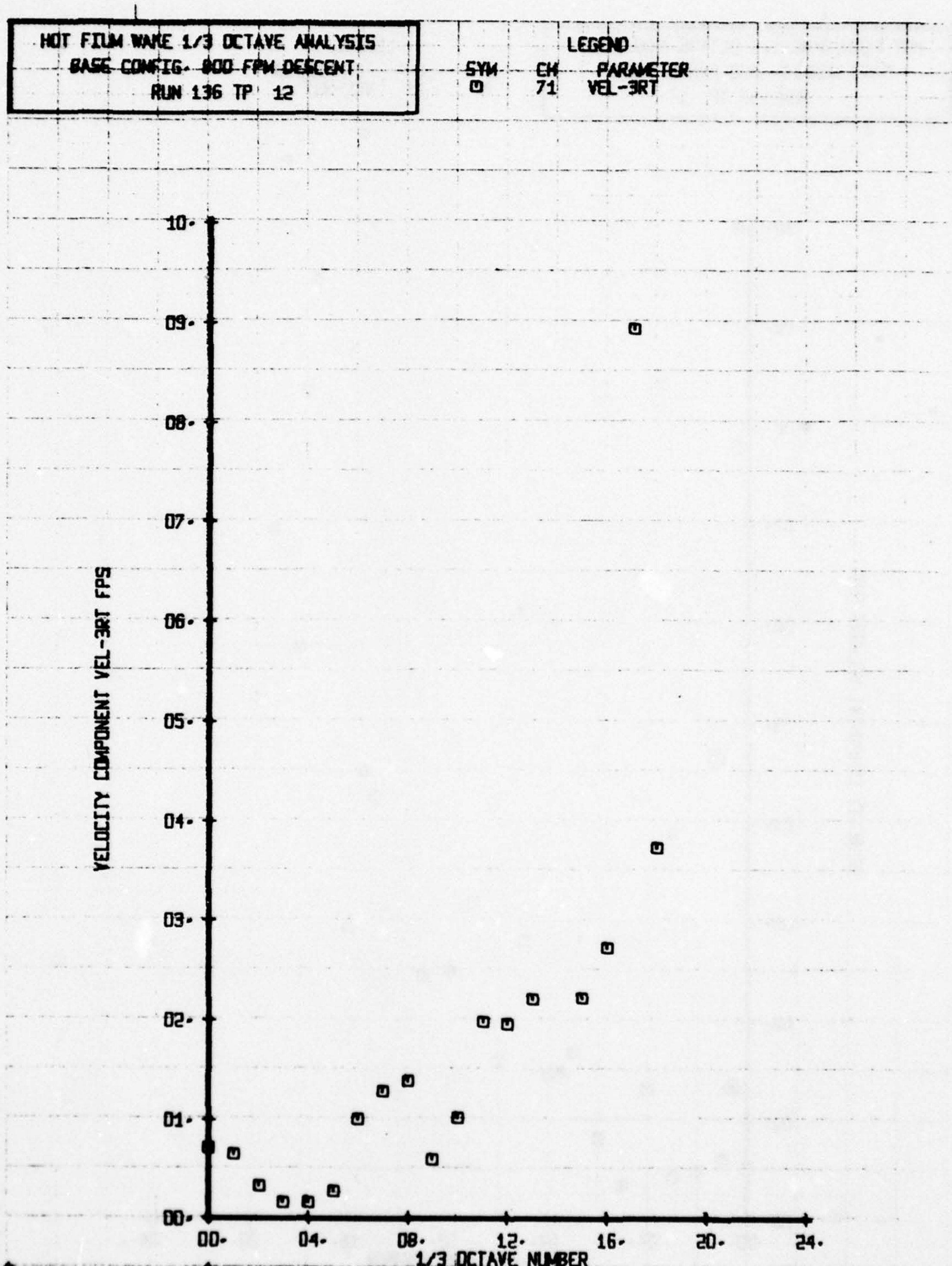
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VELOCITY COMPONENT VEL-3RT FPS
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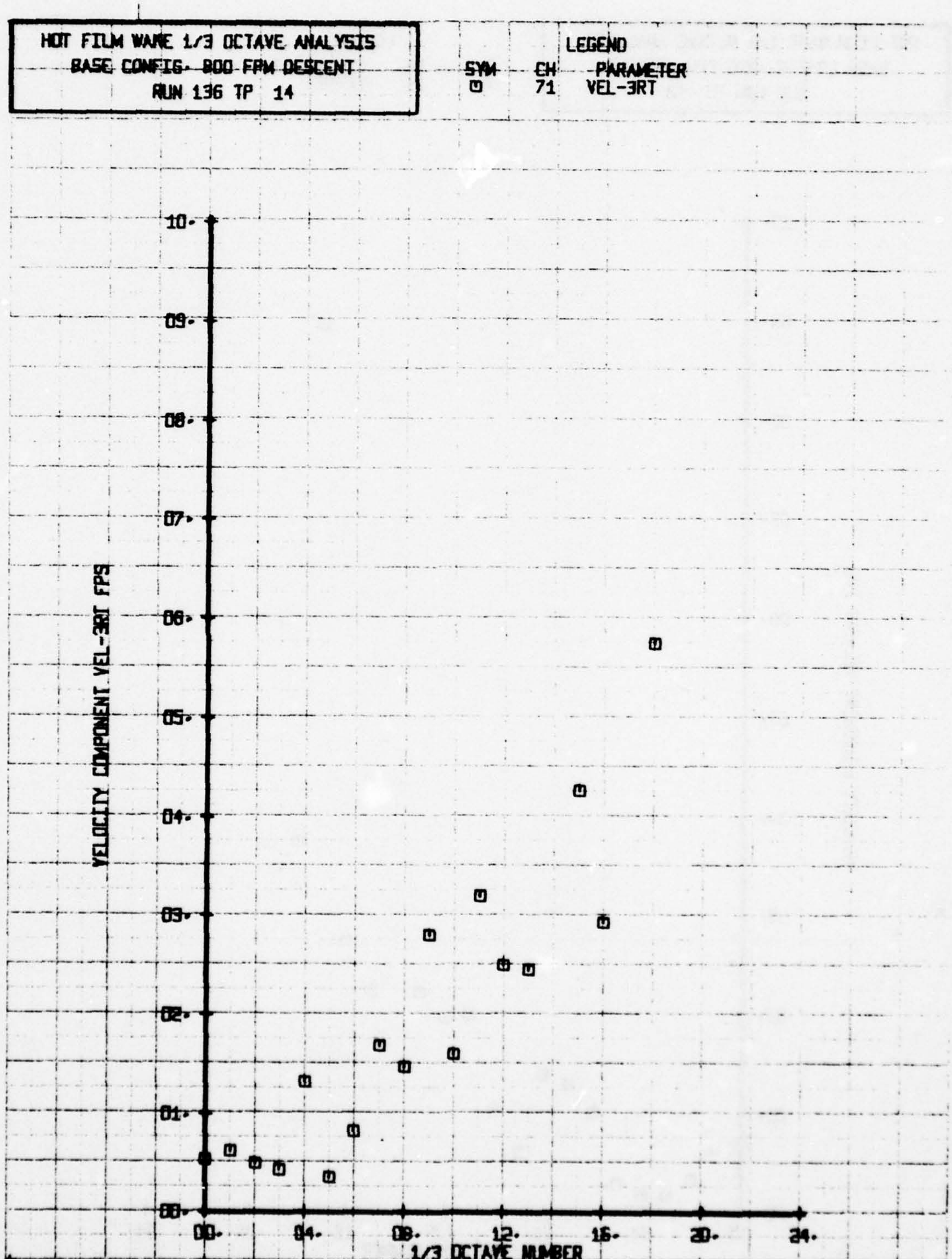
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VELOCITY COMPONENT VEL-3RT FPS
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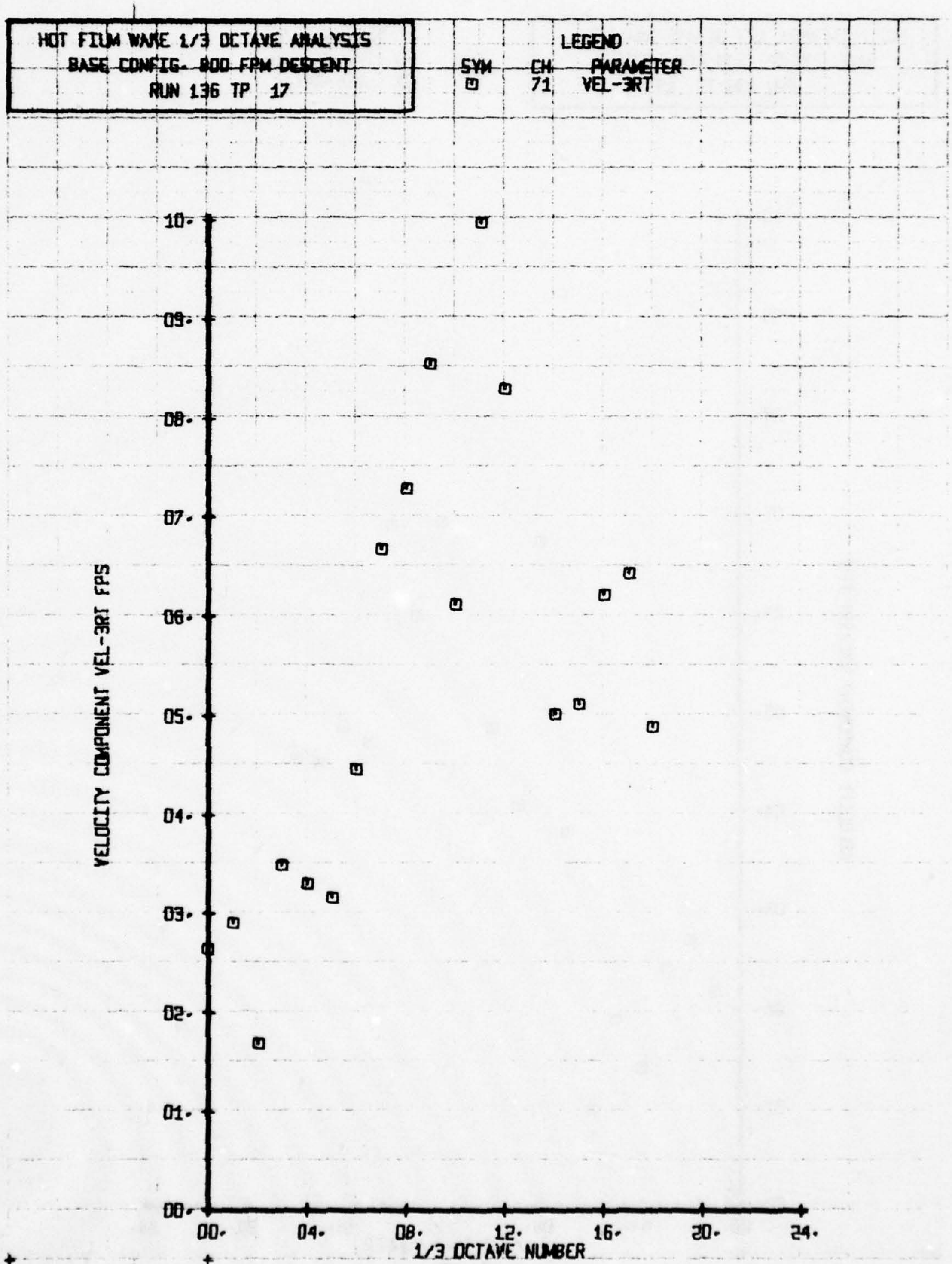
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VELOCITY COMPONENT VEL-3RT FPS
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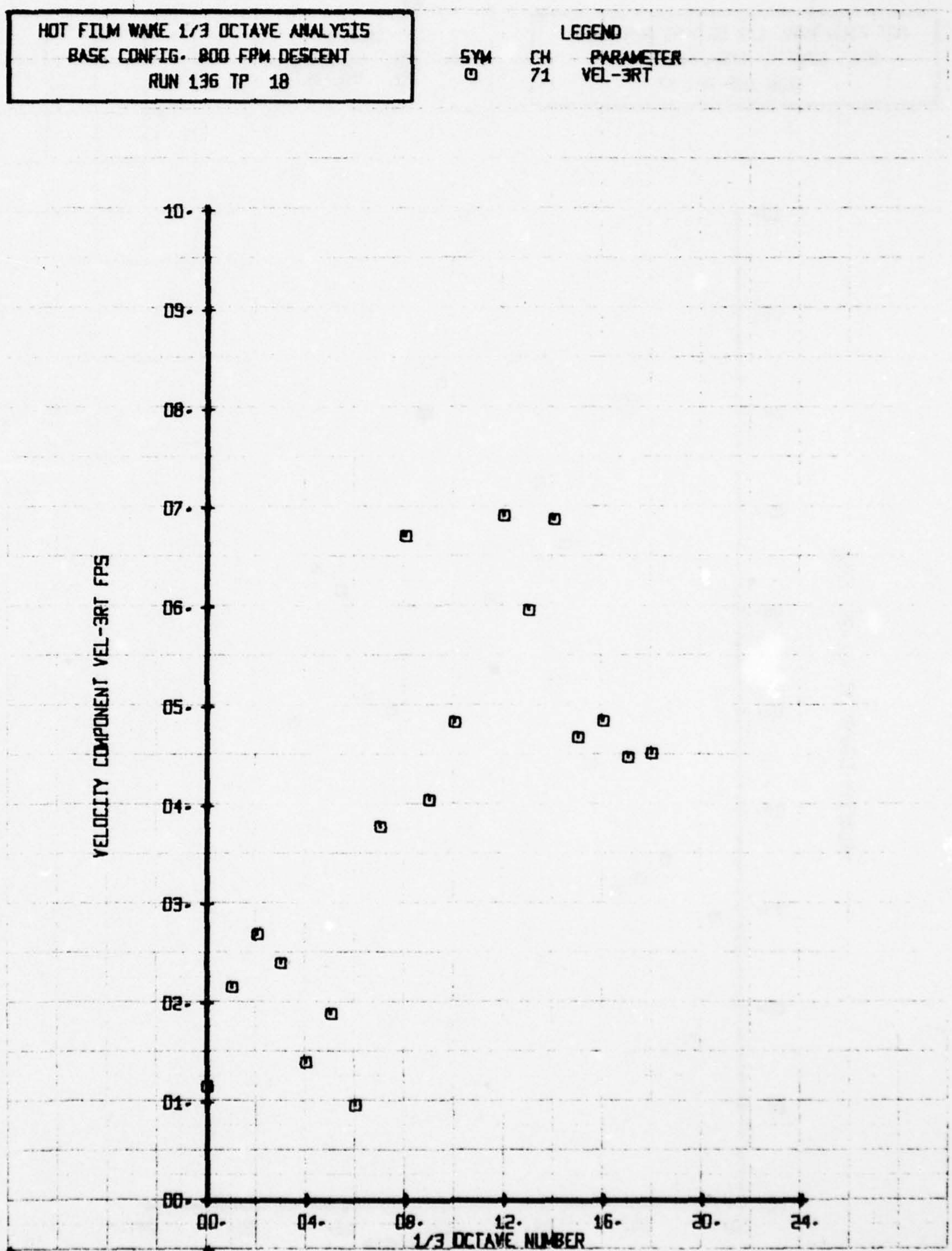
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SYM CH PARAMETER
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VELOCITY COMPONENT VEL-3RT FPS
1/3 OCTAVE NUMBER
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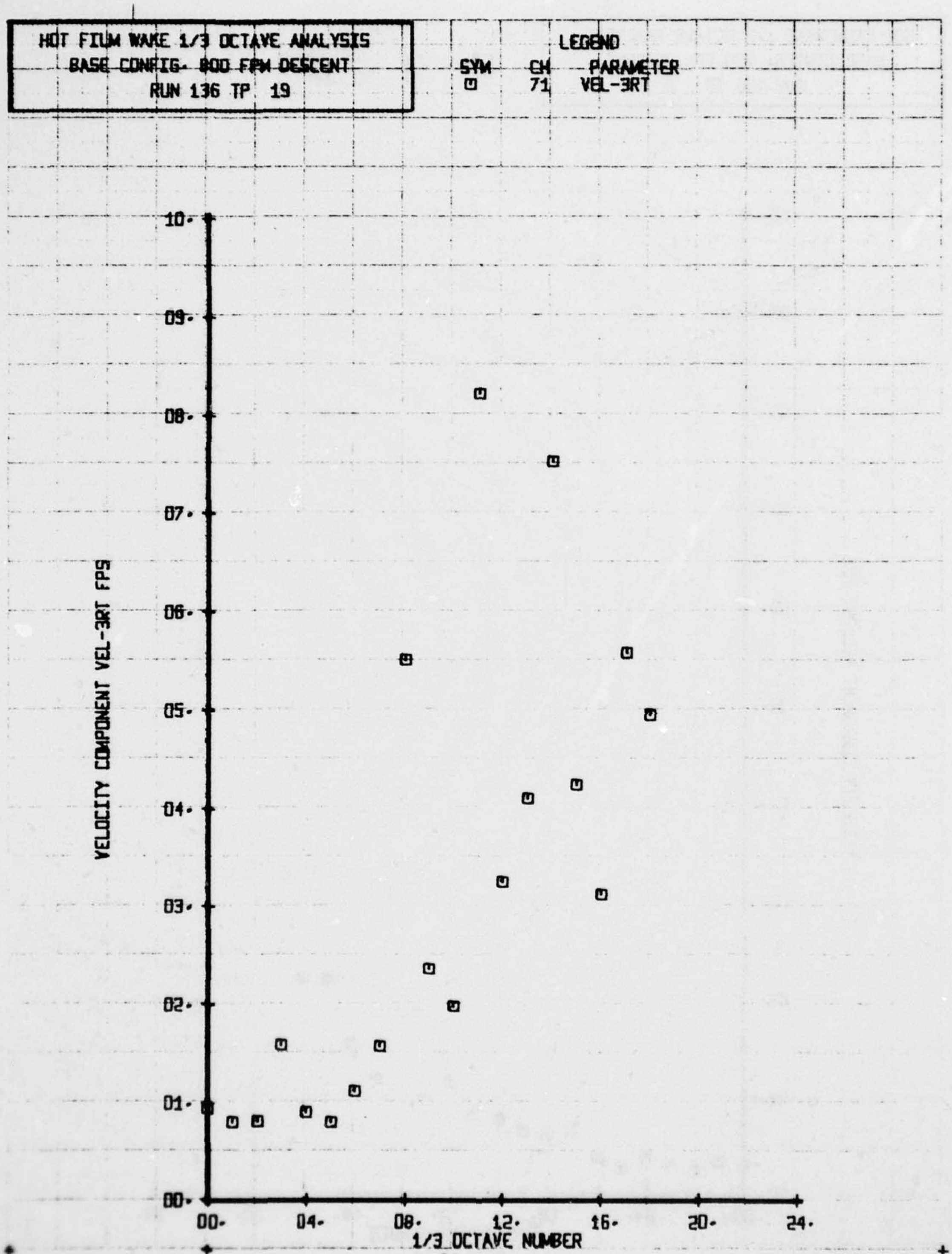
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VELOCITY COMPONENT VEL-3RT FPS
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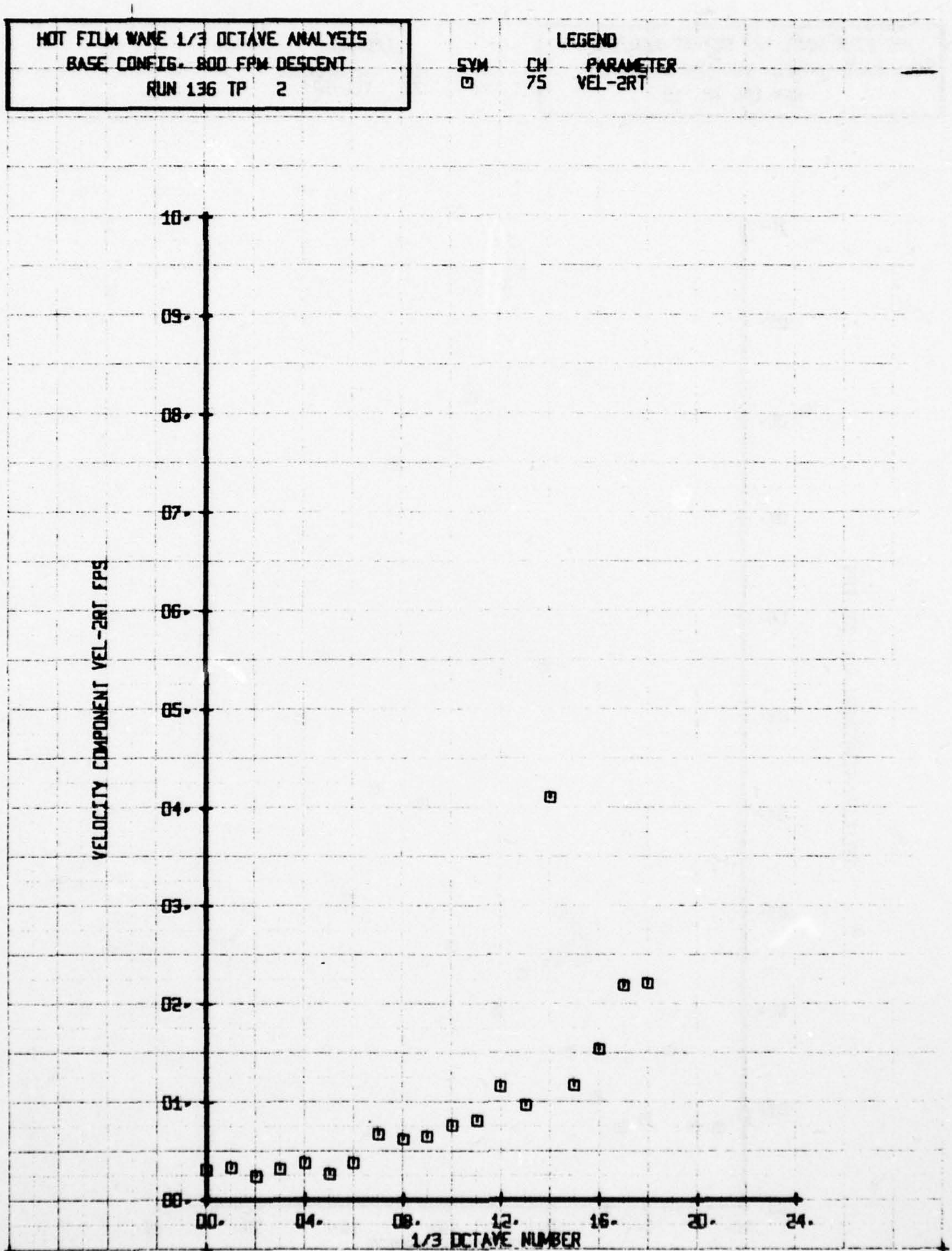
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VELOCITY COMPONENT VEL-2RT FPS
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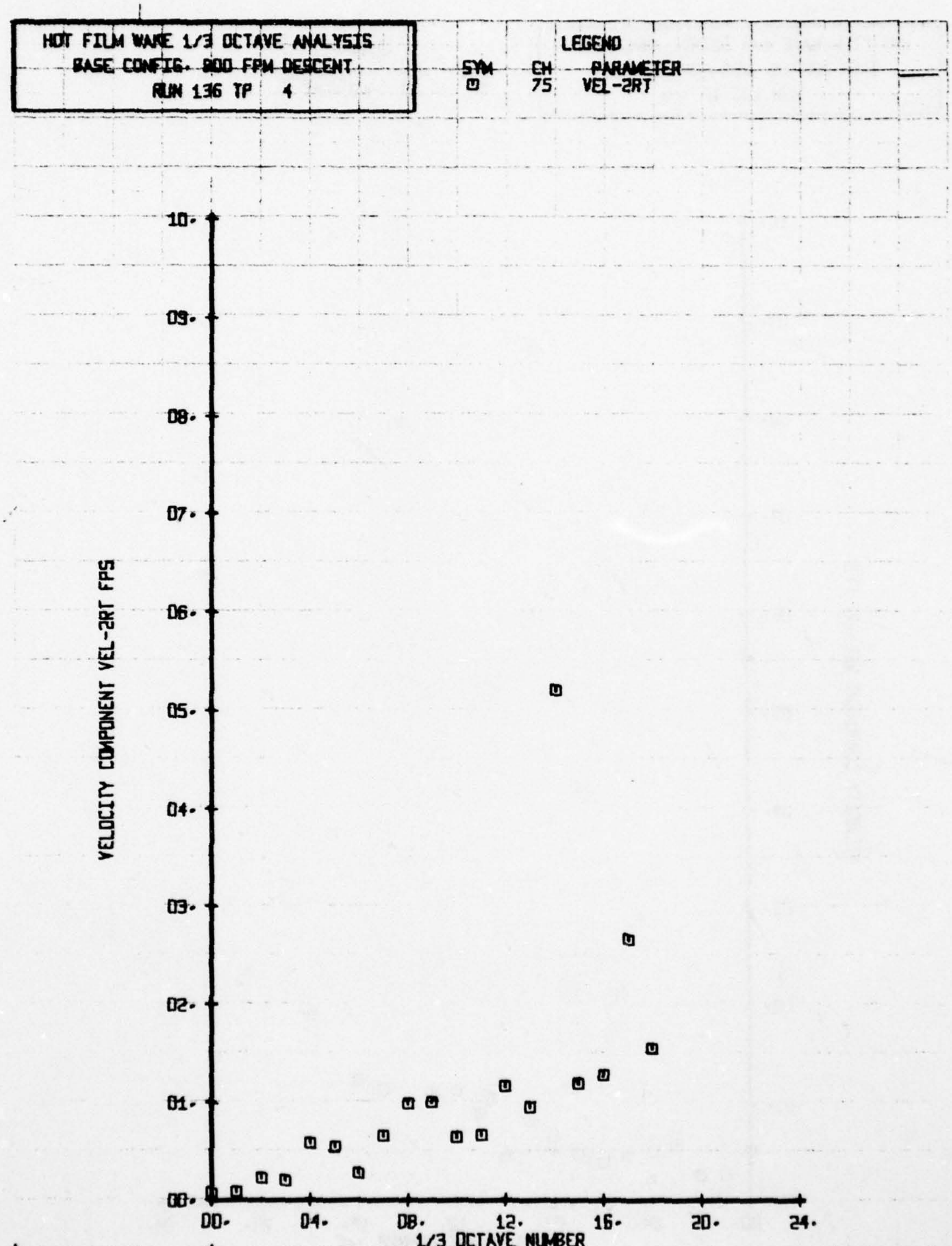
1/3 OCTAVE NUMBER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VELOCITY COMPONENT VEL-2RT FPS
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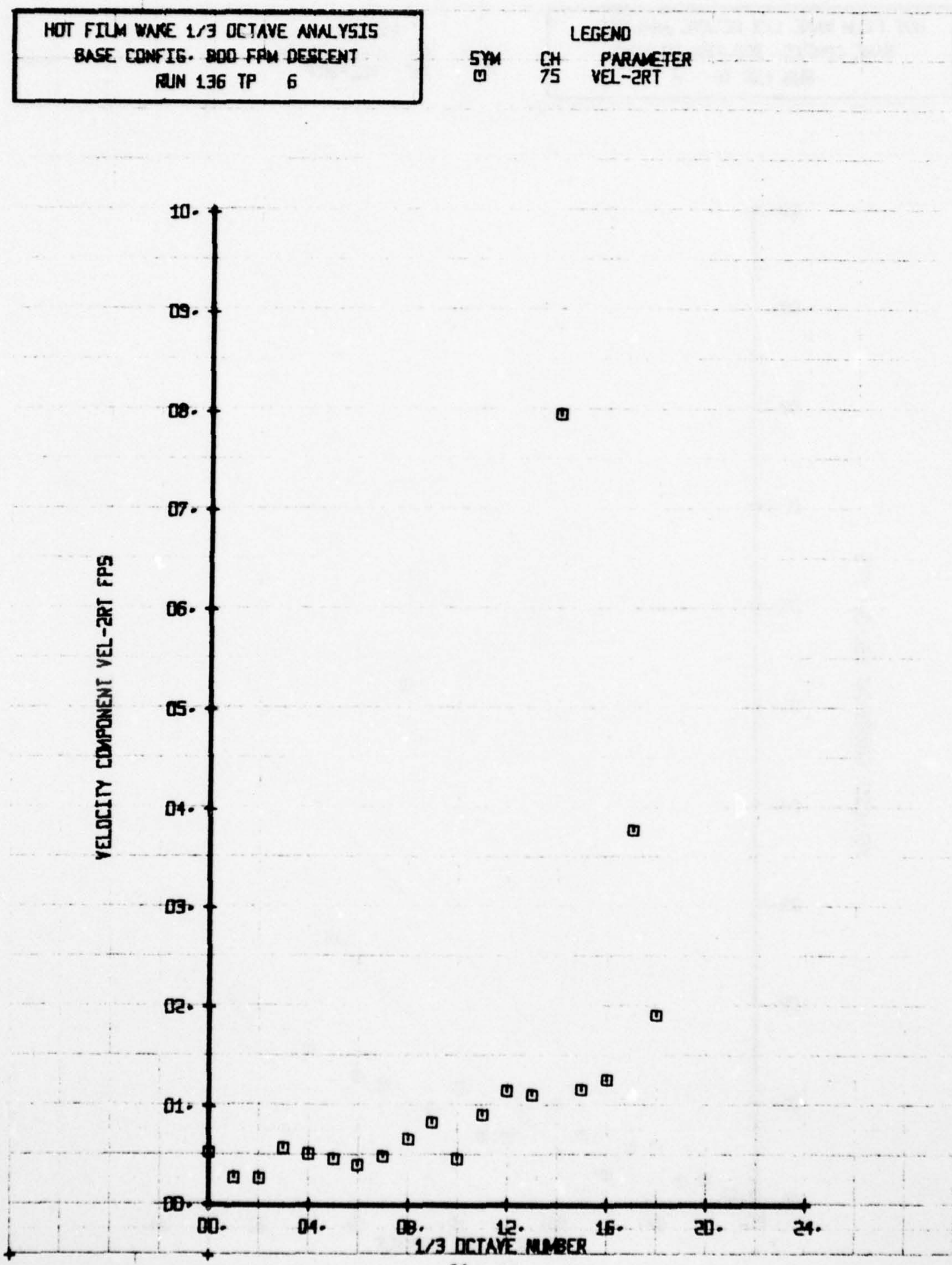
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BASE CONFIG. 800 FPM DESCENT
RUN 136 TP 6
LEGEND
SYM CH PARAMETER
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VELOCITY COMPONENT VEL-2RT FPS
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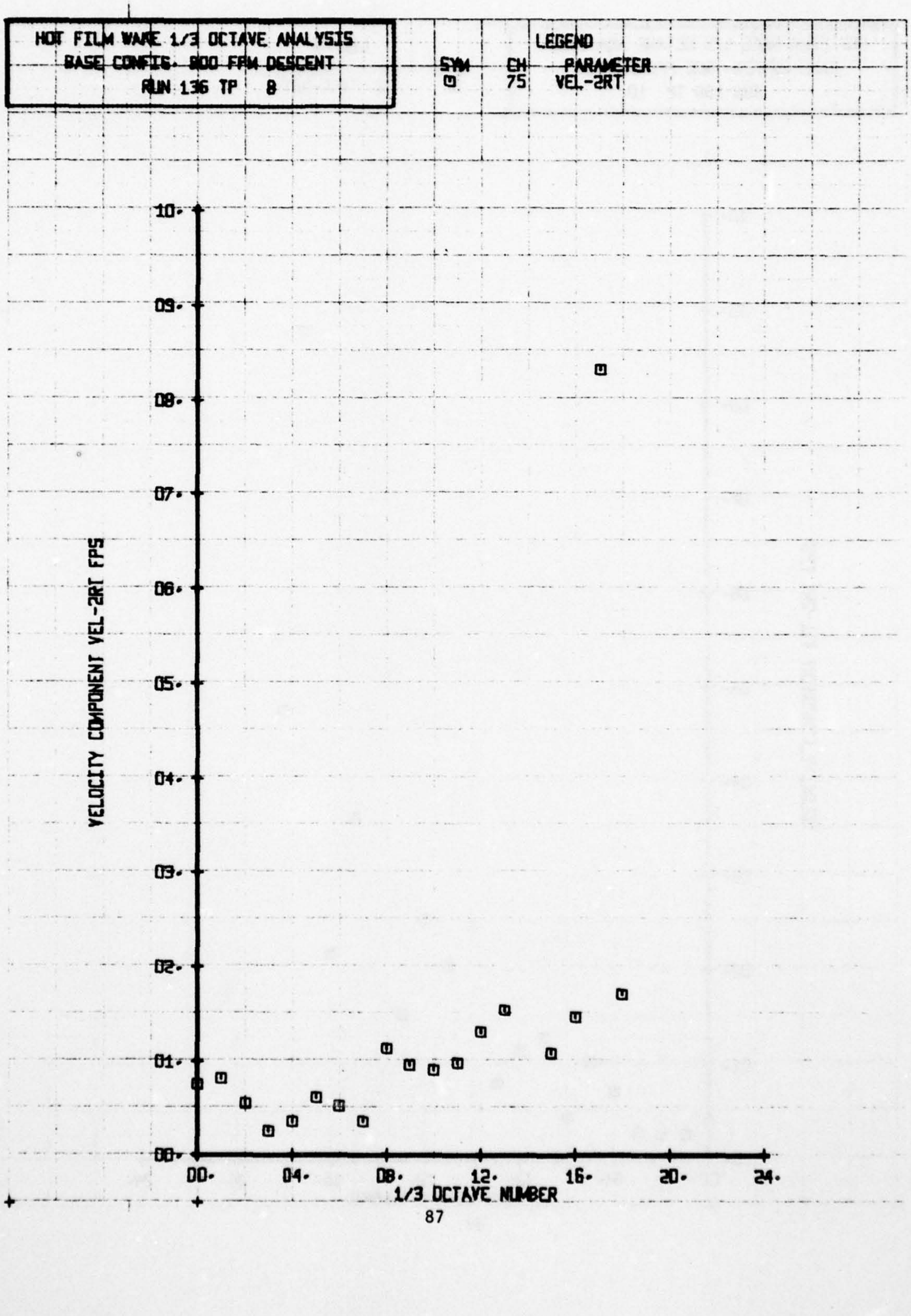
1/3 OCTAVE NUMBER



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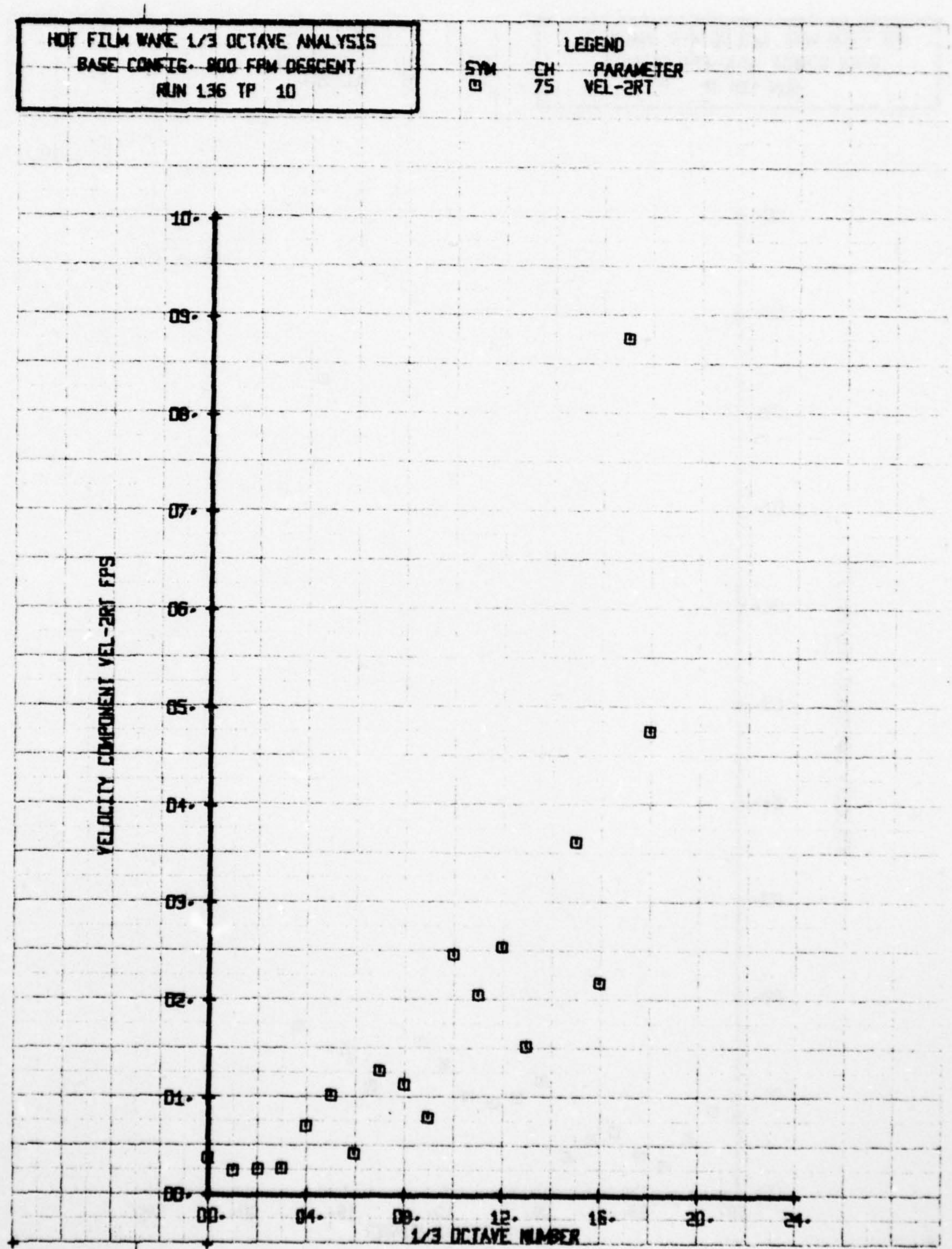
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BASE CONFIG. 800 FPM DESCENT
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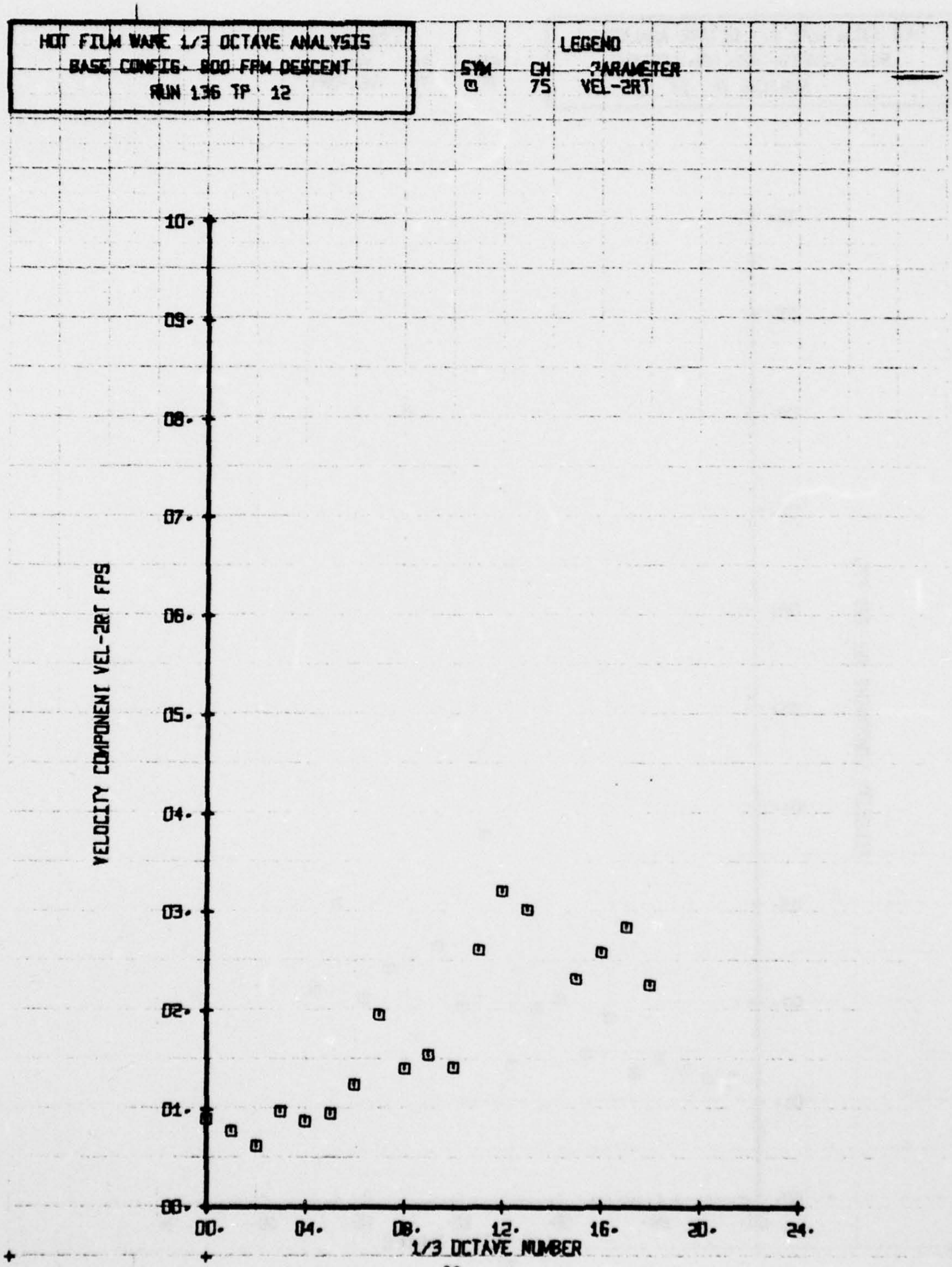
1/3 OCTAVE NUMBER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BASE CONFIG. 800 FPM DESCENT
RUN 136 TP 12
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SYM CH PARAMETER
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VELOCITY COMPONENT VEL-2RT FPS
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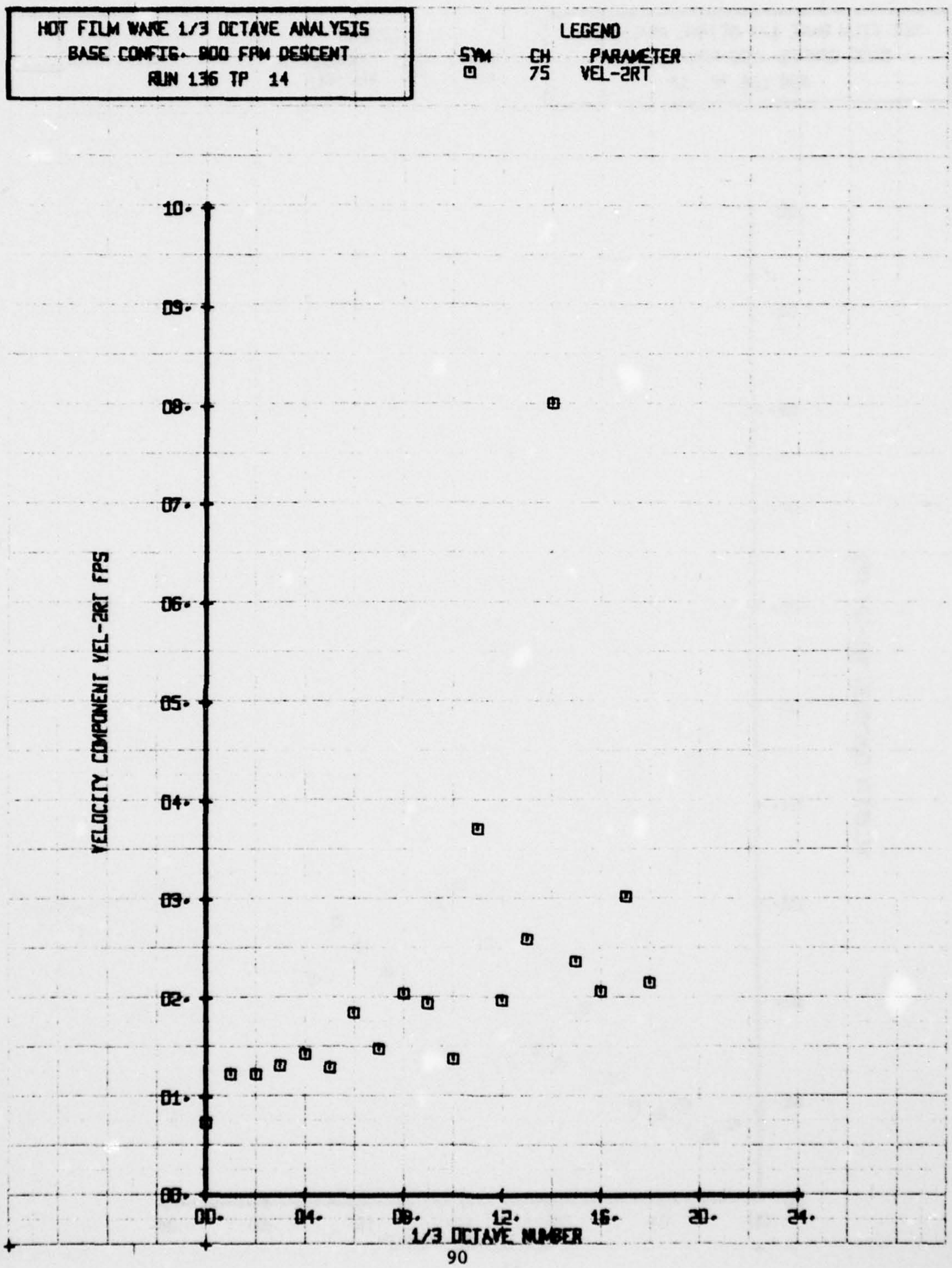
1/3 OCTAVE NUMBER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BASE CONFIG. 800 FPM DESCENT
RUN 136 TP 14
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SYM CH PARAMETER
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VELOCITY COMPONENT VEL-2RT FPS
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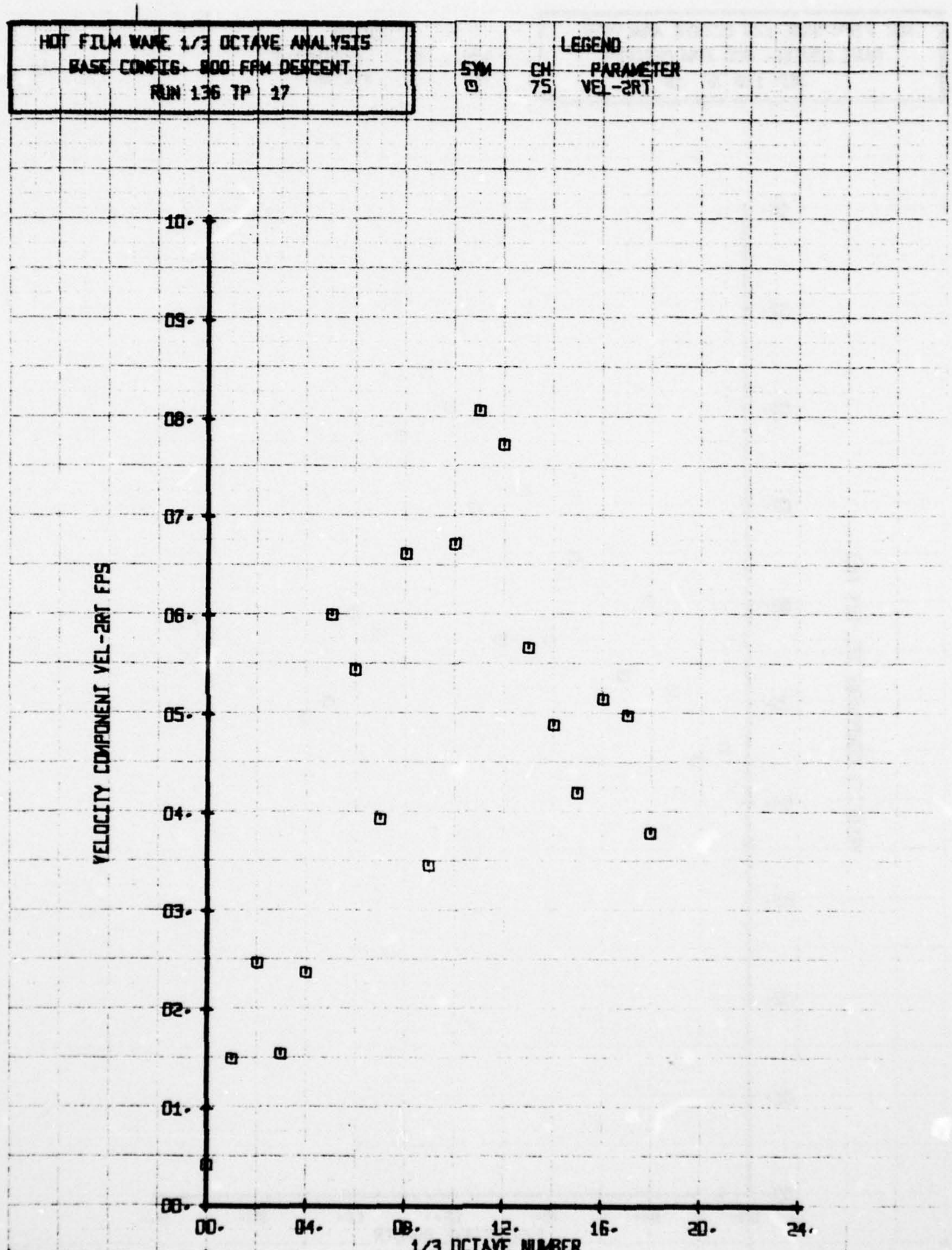
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BASE CONFIG. 800 FPM DESCENT
RUN 136 TP 17
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VELOCITY COMPONENT VEL-2RT FPS
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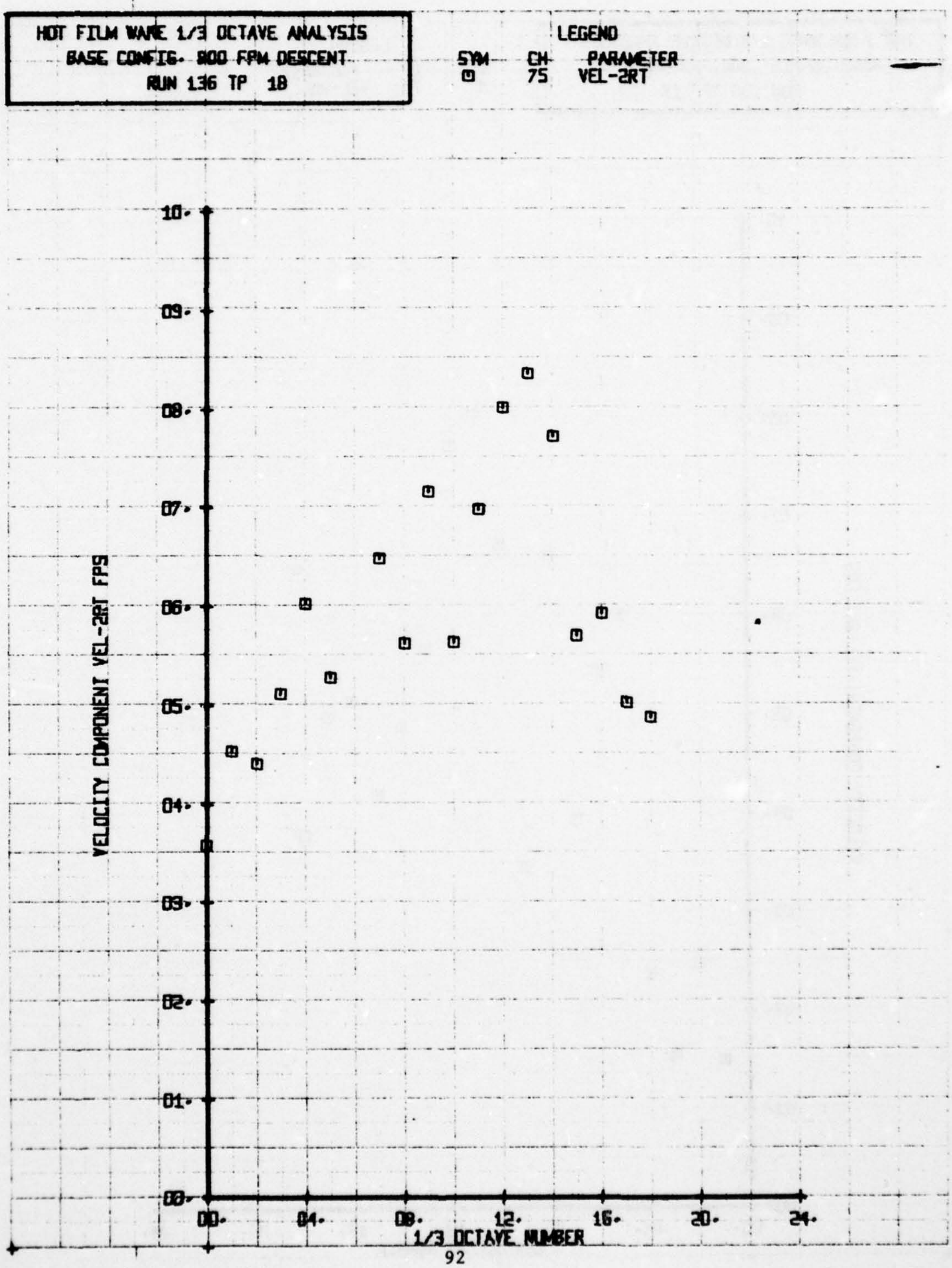
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RUN 136 TP 18
LEGEND
SYM CH PARAMETER
75 VEL-2RT
VELOCITY COMPONENT VEL-2RT FPS
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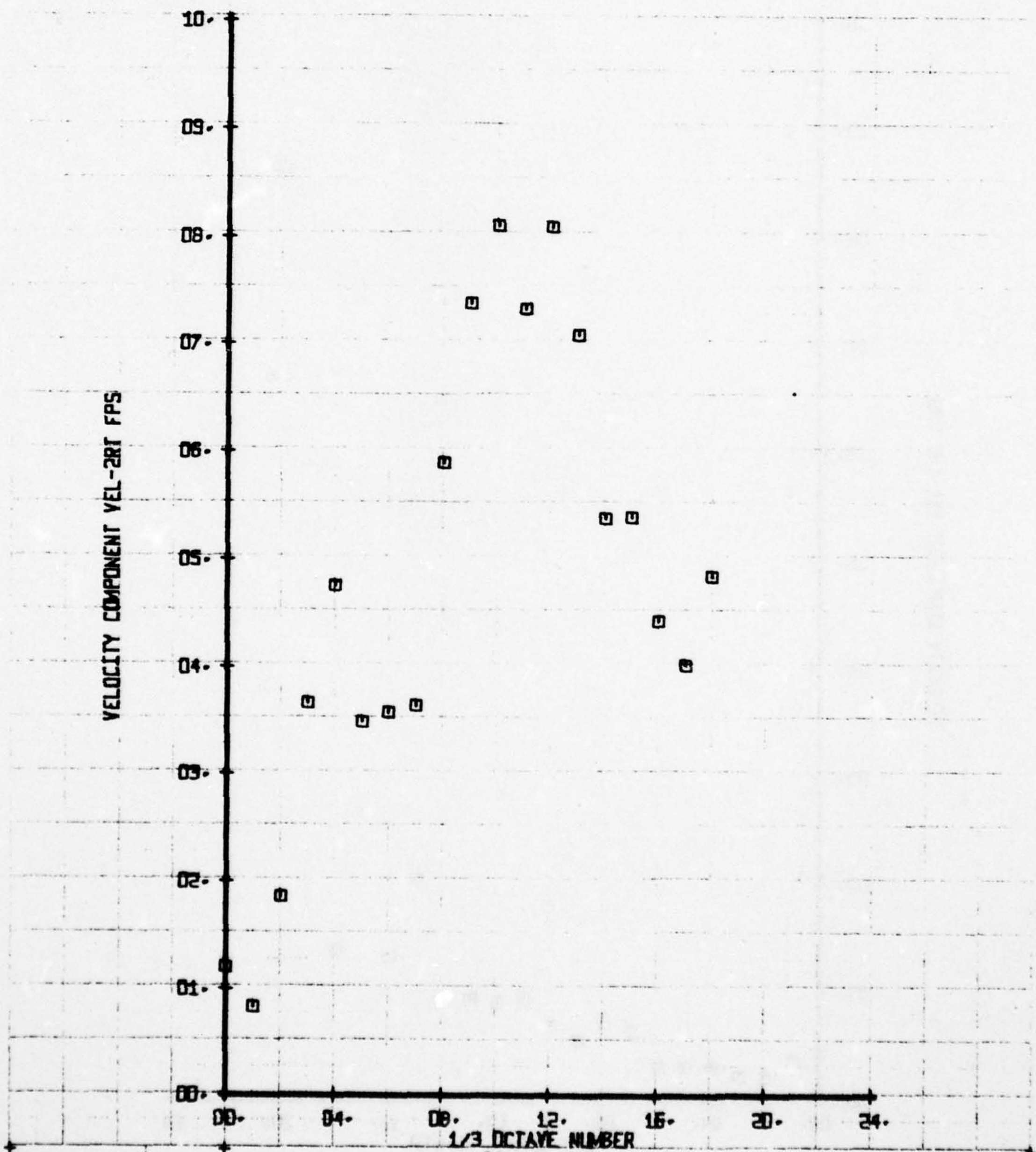
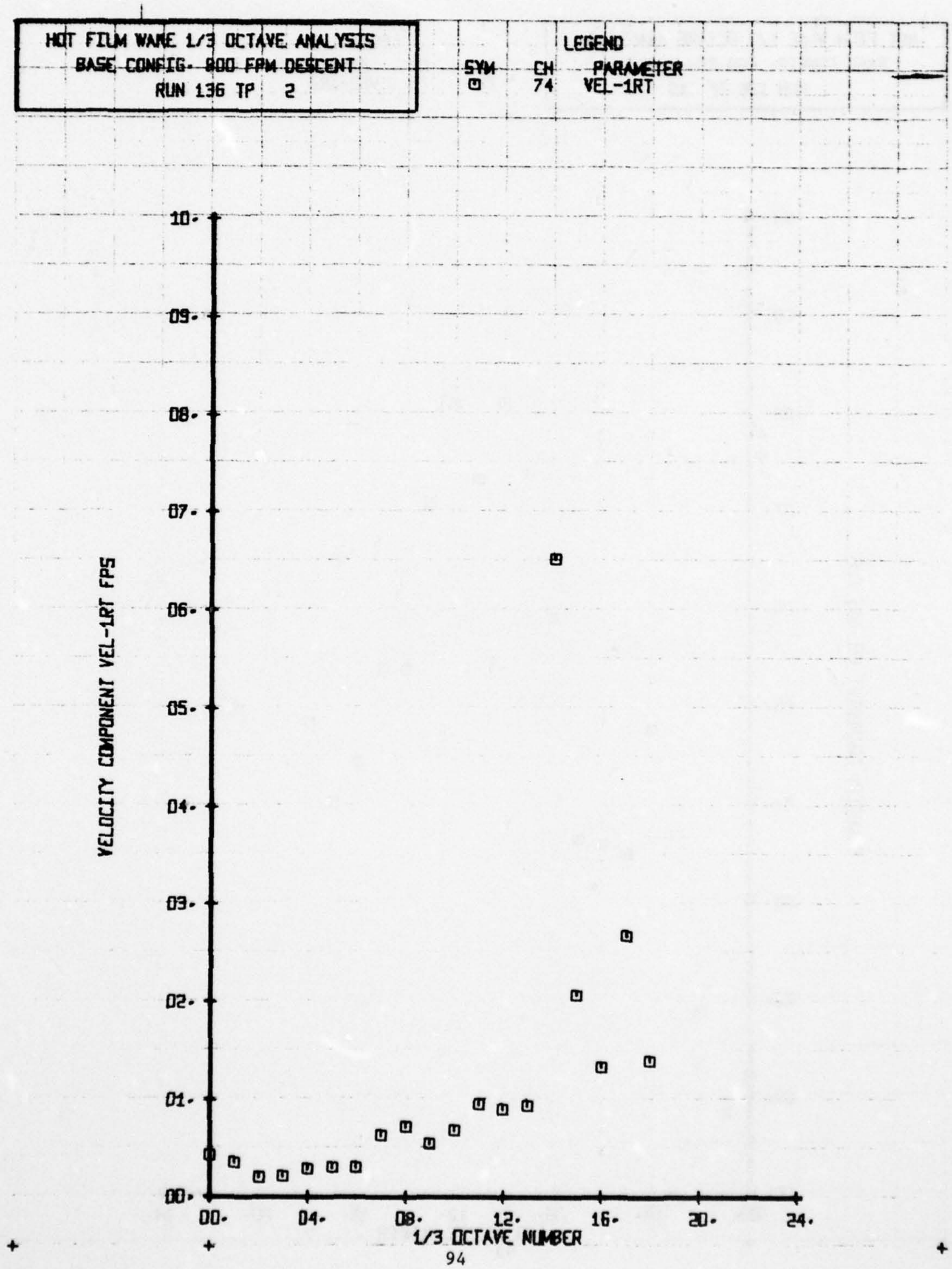
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
BASE CONFIG. 800 FPM DESCENT
RUN 136 TP 19

LEGEND		
SYM	CH	PARAMETER
◻	75	VEL-2RT





HOT FILM WAKE 1/3 OCTAVE ANALYSIS
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VELOCITY COMPONENT VEL-1RT FPS
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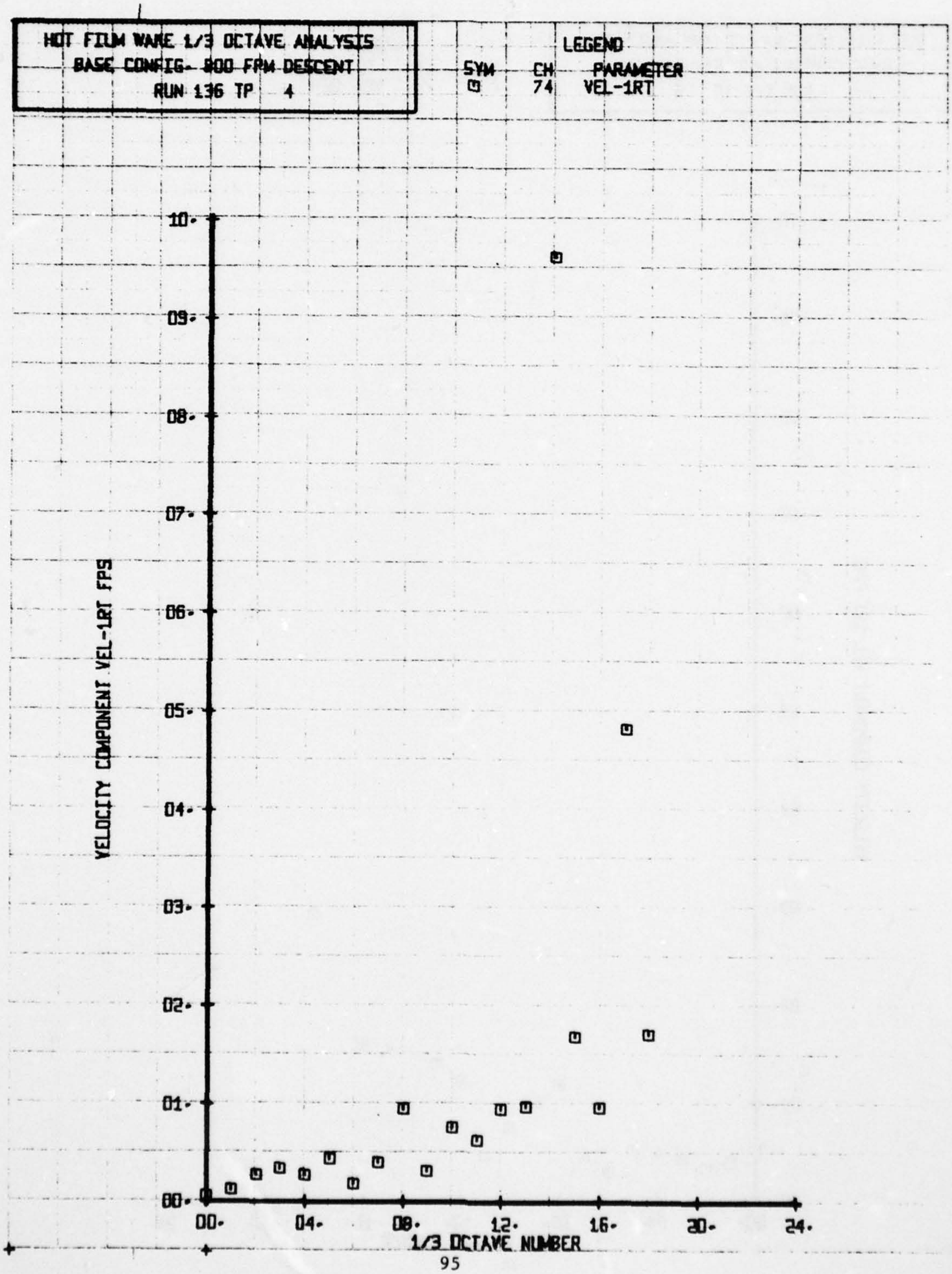
1/3 OCTAVE NUMBER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VELOCITY COMPONENT VEL-1RT FPS
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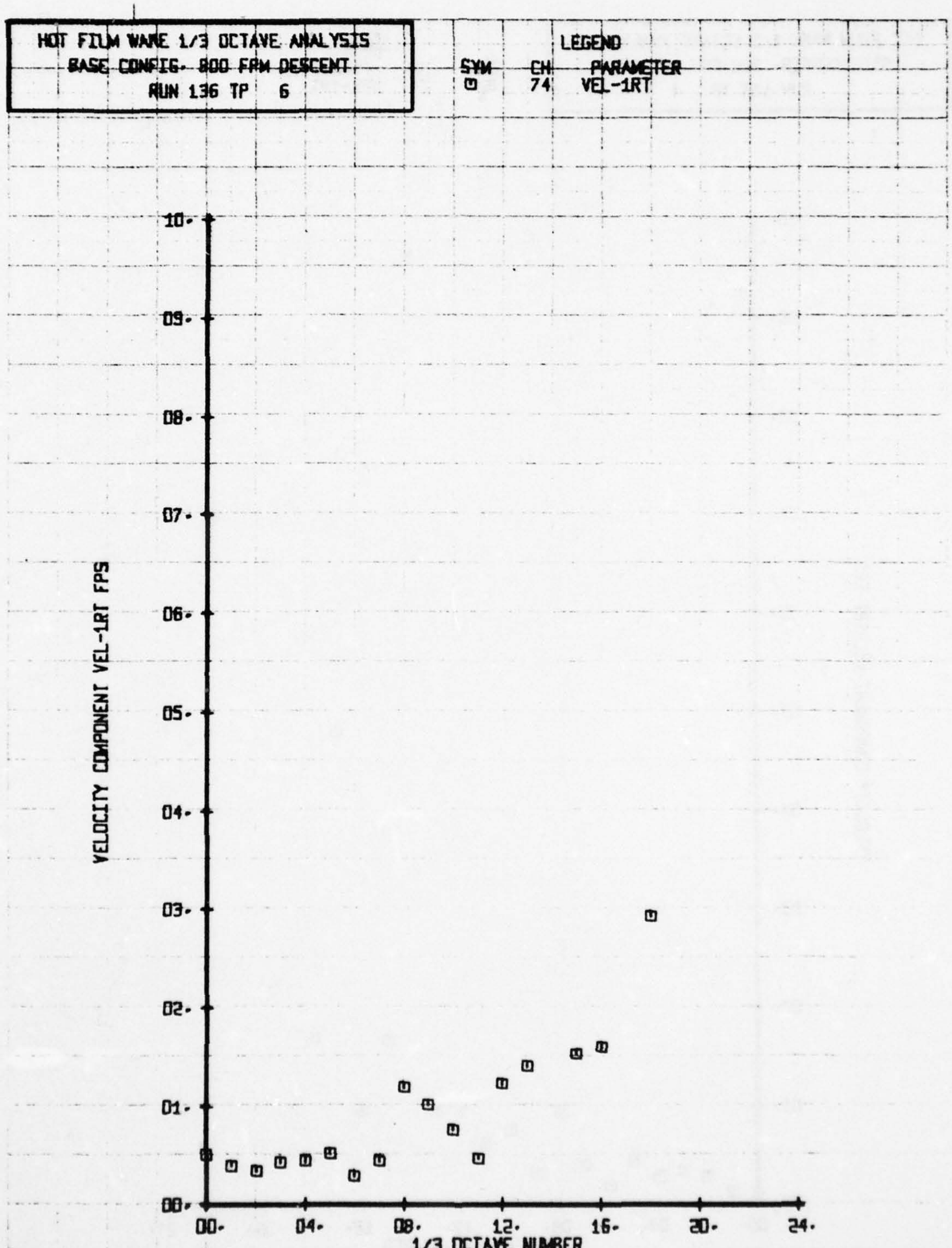
1/3 OCTAVE NUMBER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VELOCITY COMPONENT VEL-1RT FPS
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AD-A062 140 BOEING VERTOL CO PHILADELPHIA PA F/G 1/3
INTERACTIONAL AERODYNAMICS OF THE SINGLE ROTOR HELICOPTER CONFI--ETC(U)
SEP 78 P F SHERIDAN DAAJ02-77-C-0020
UNCLASSIFIED USARTL-TR-78-23F-V-6-C NL

2 OF 4
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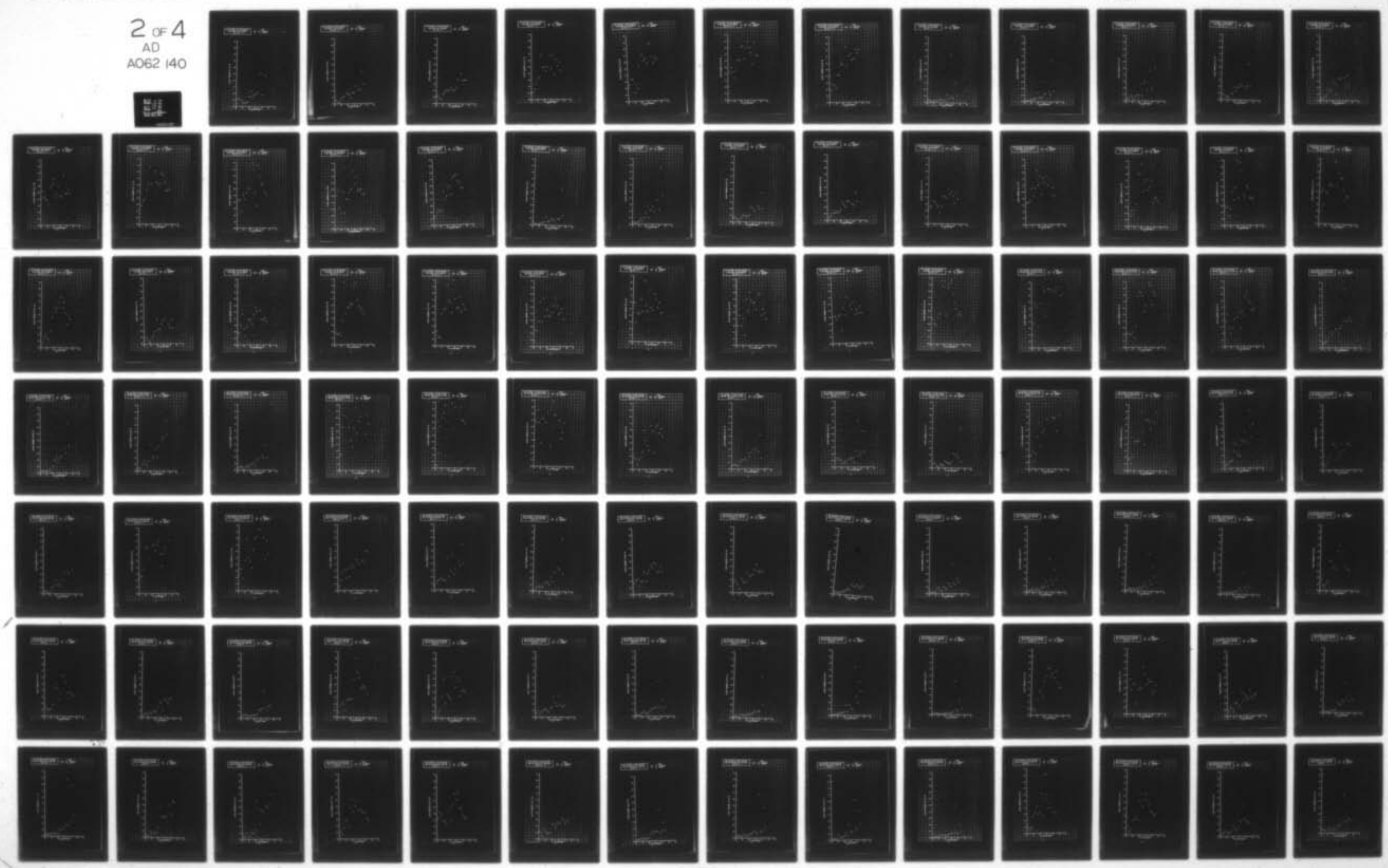
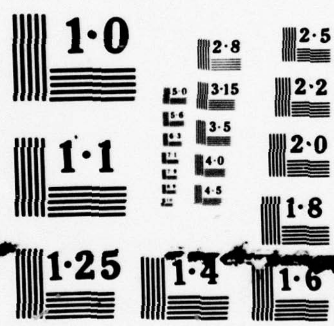
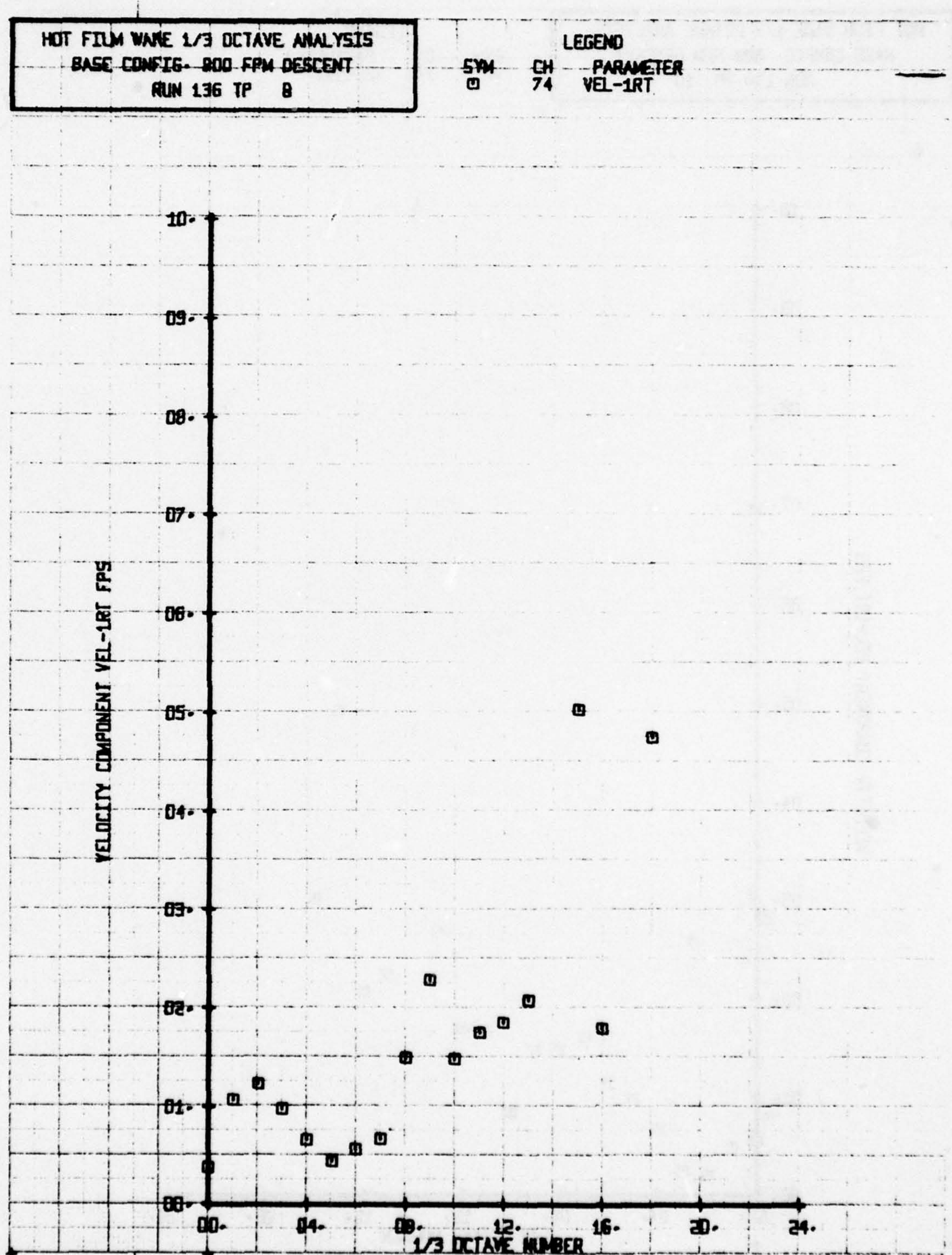




NATIONAL BUREAU OF STANDARDS
MICROCOPY RESOLUTION TEST CHART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VELOCITY COMPONENT VEL-1RT FPS
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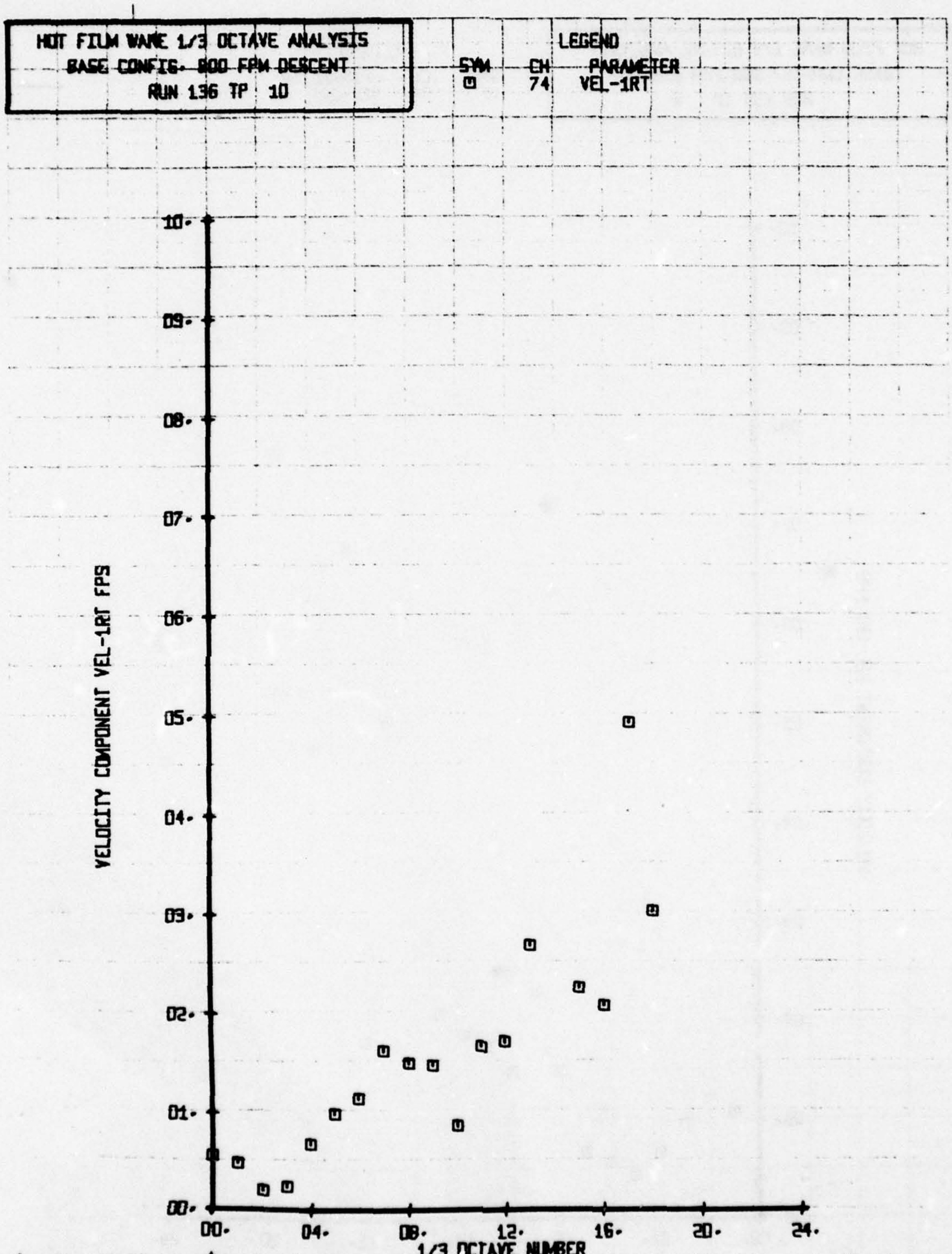
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VELOCITY COMPONENT VEL-1RT FPS
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1/3 OCTAVE NUMBER

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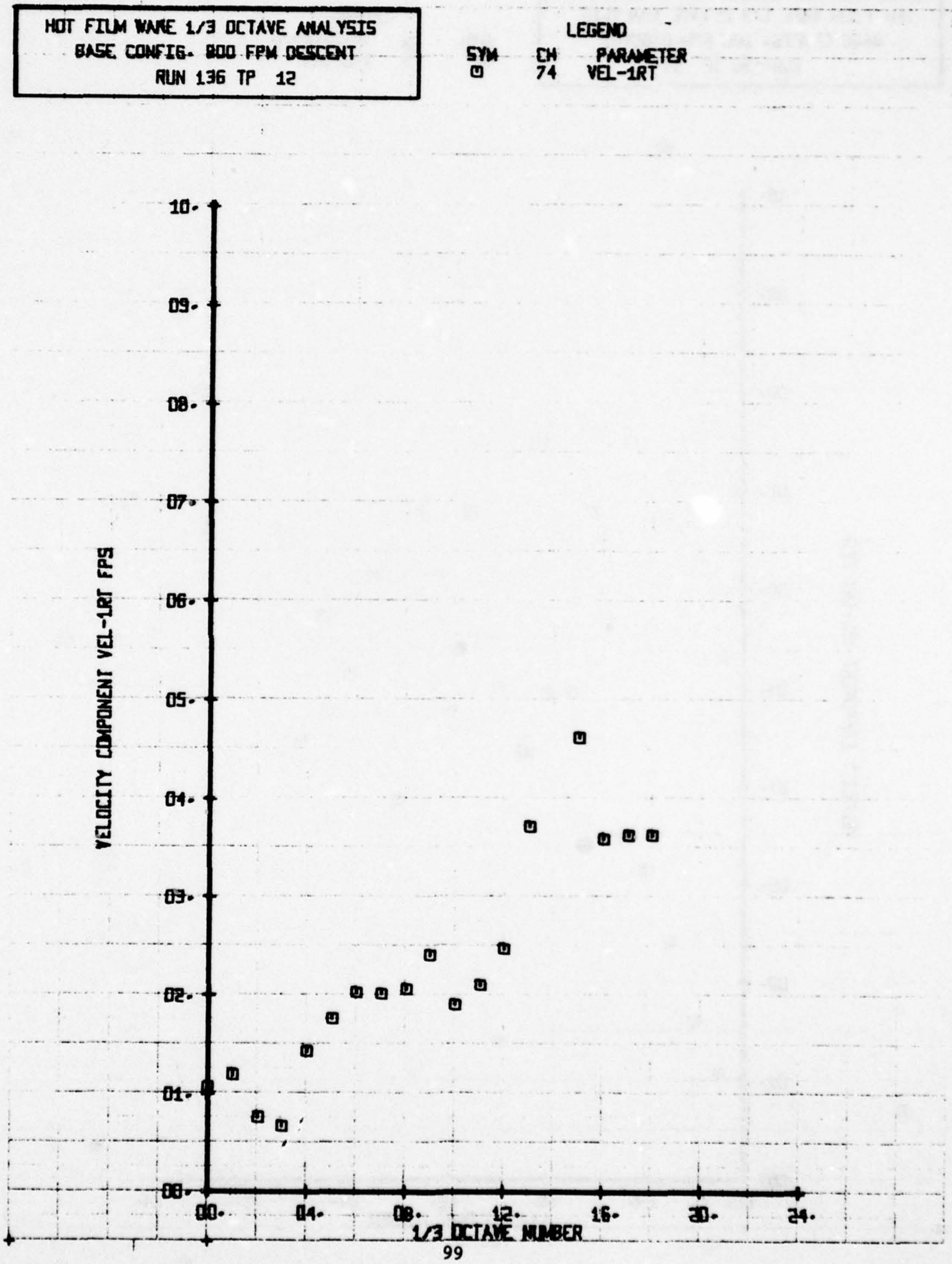

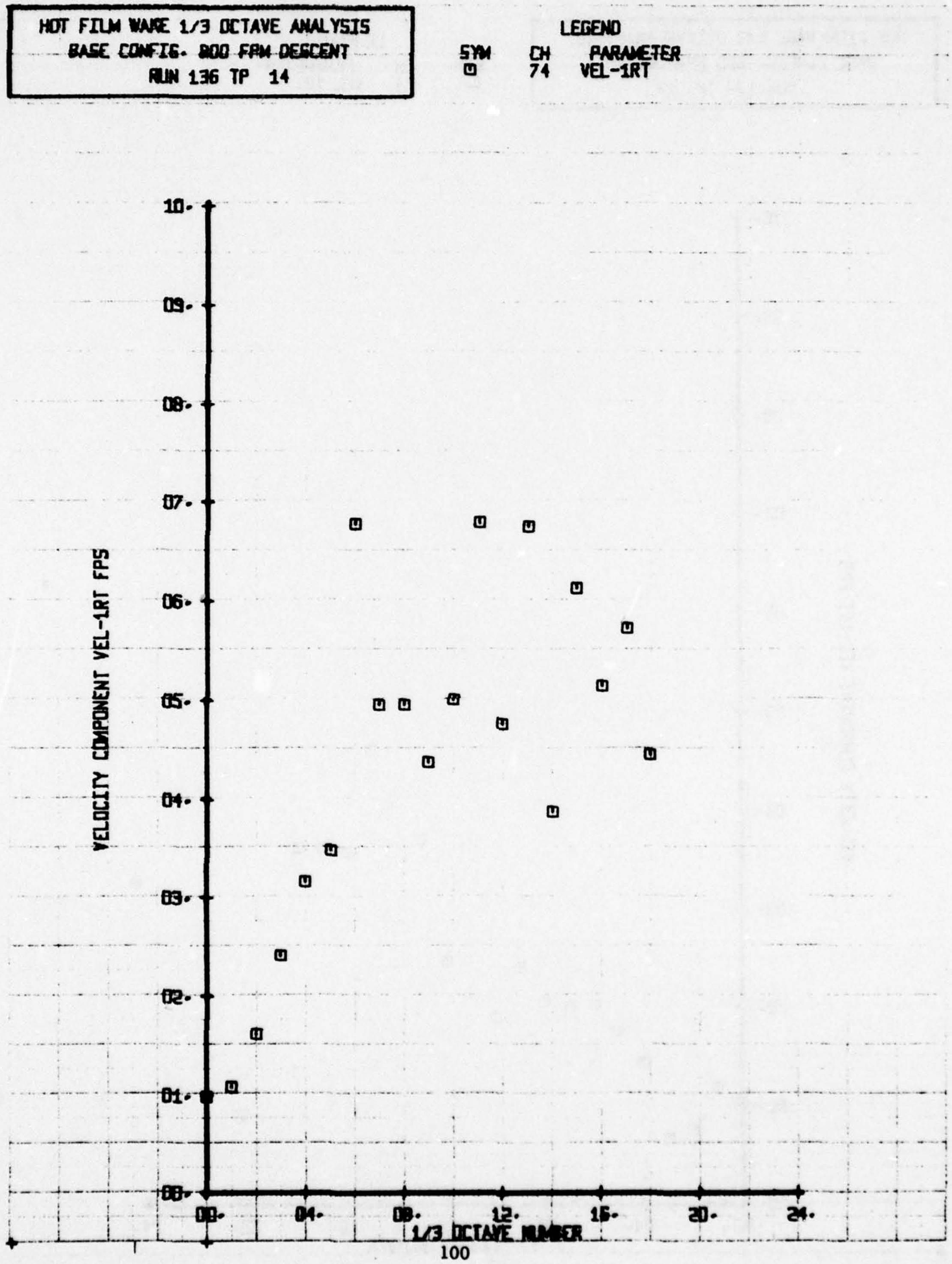
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BASE CONFIG. 800 FPM DESCENT
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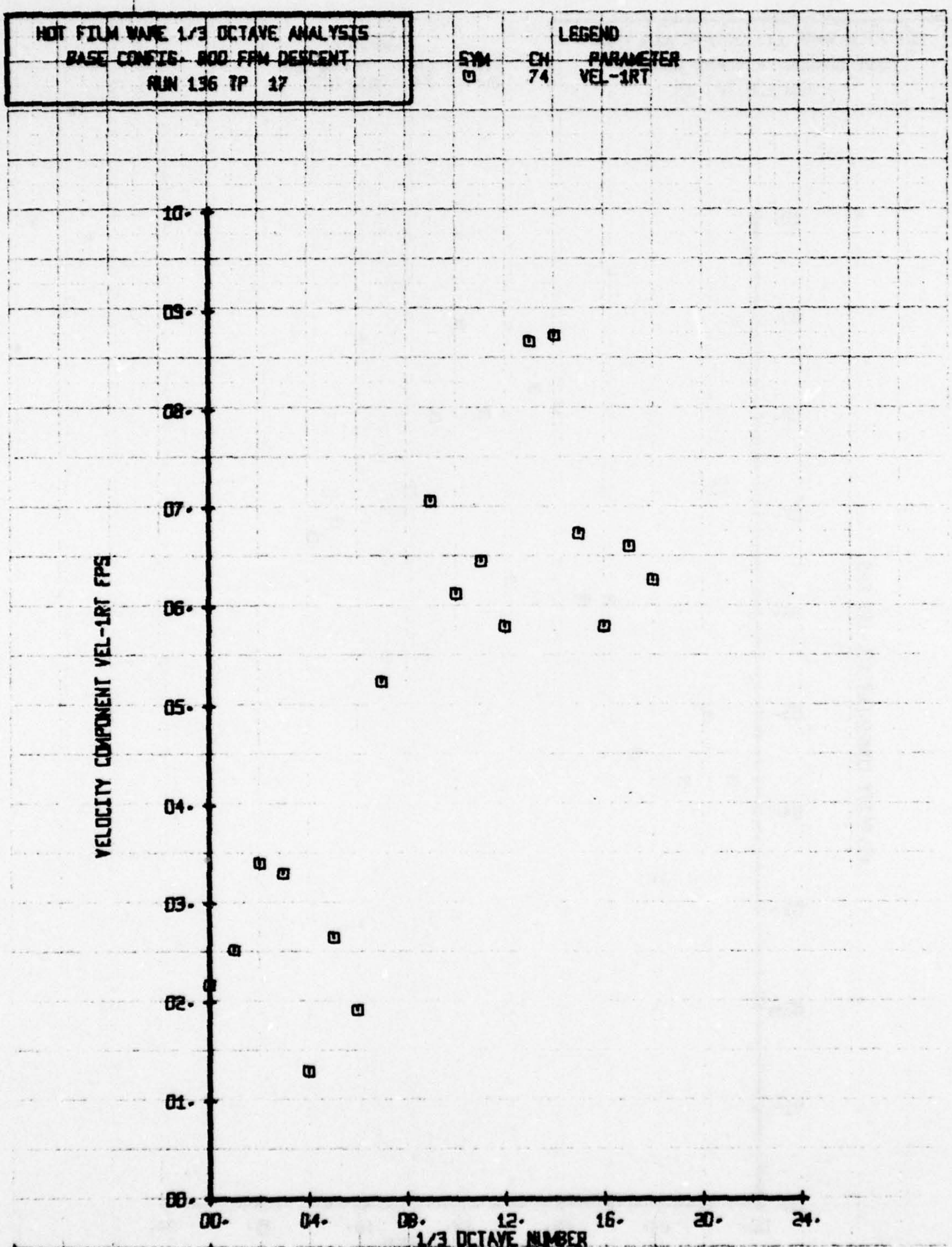
1/3 OCTAVE NUMBER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VELOCITY COMPONENT VEL-1RT FPS
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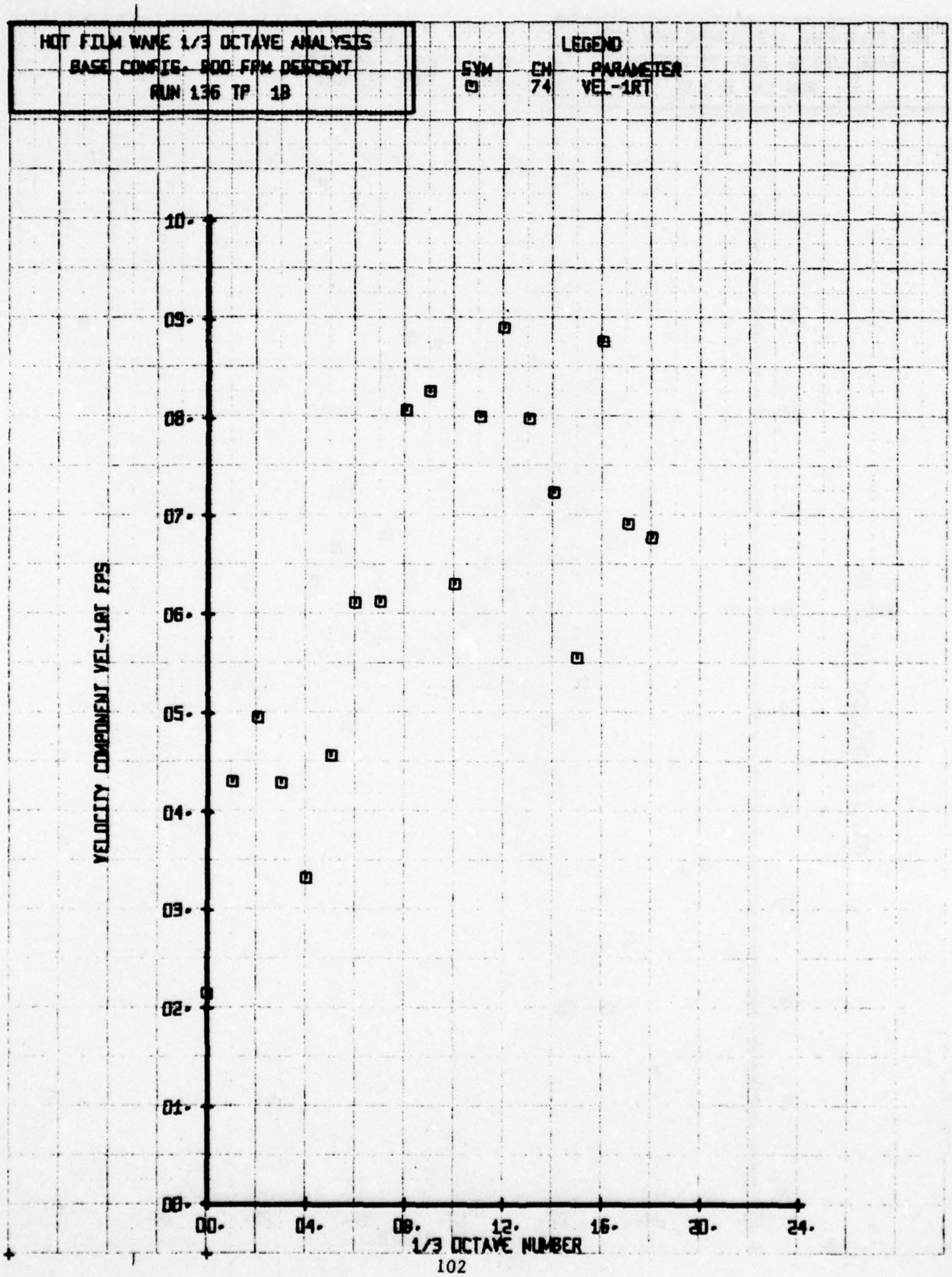
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LEGEND
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VELOCITY COMPONENT VEL-1RT FPS
1/3 OCTAVE NUMBER
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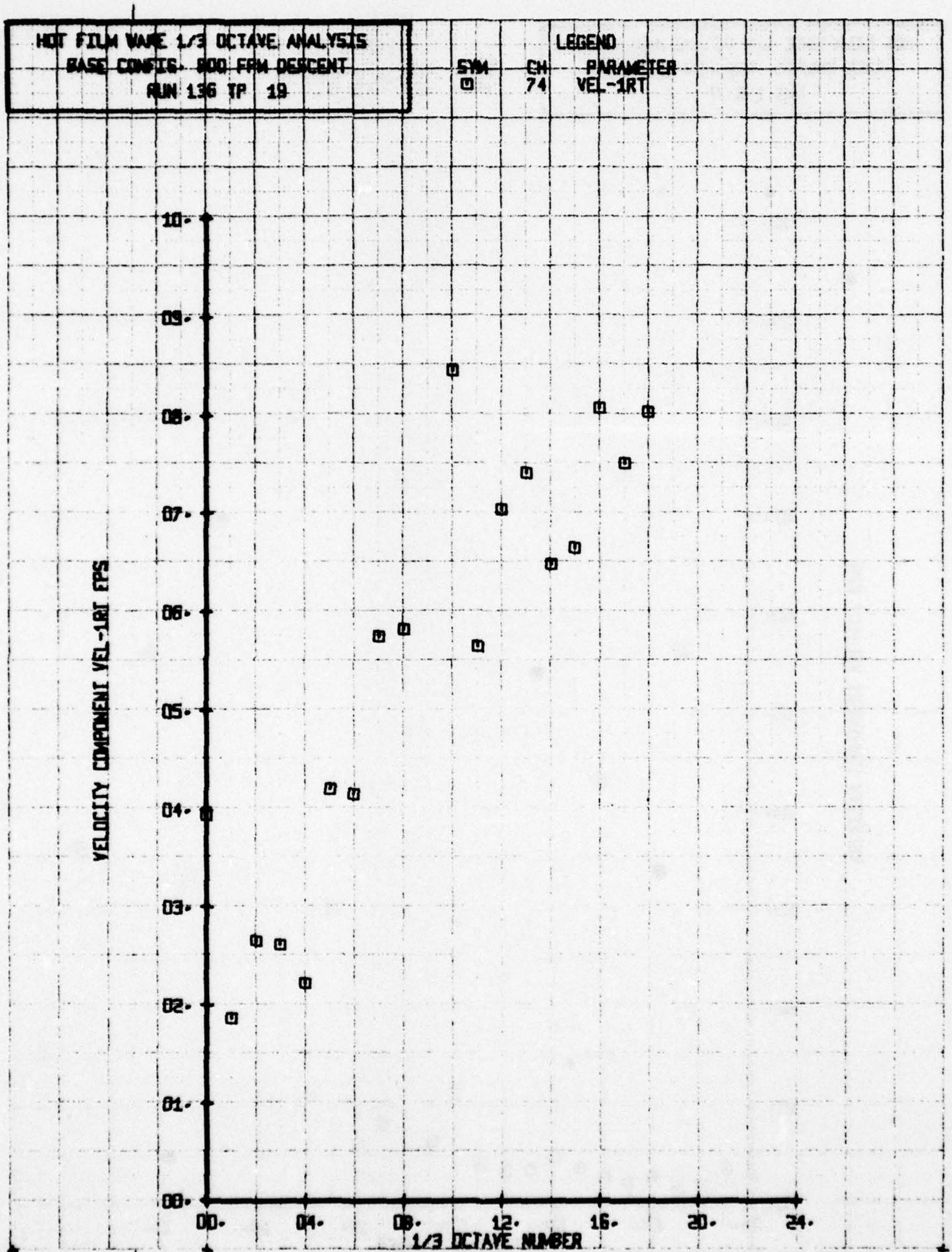
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VELOCITY COMPONENT VEL-1RT FPS
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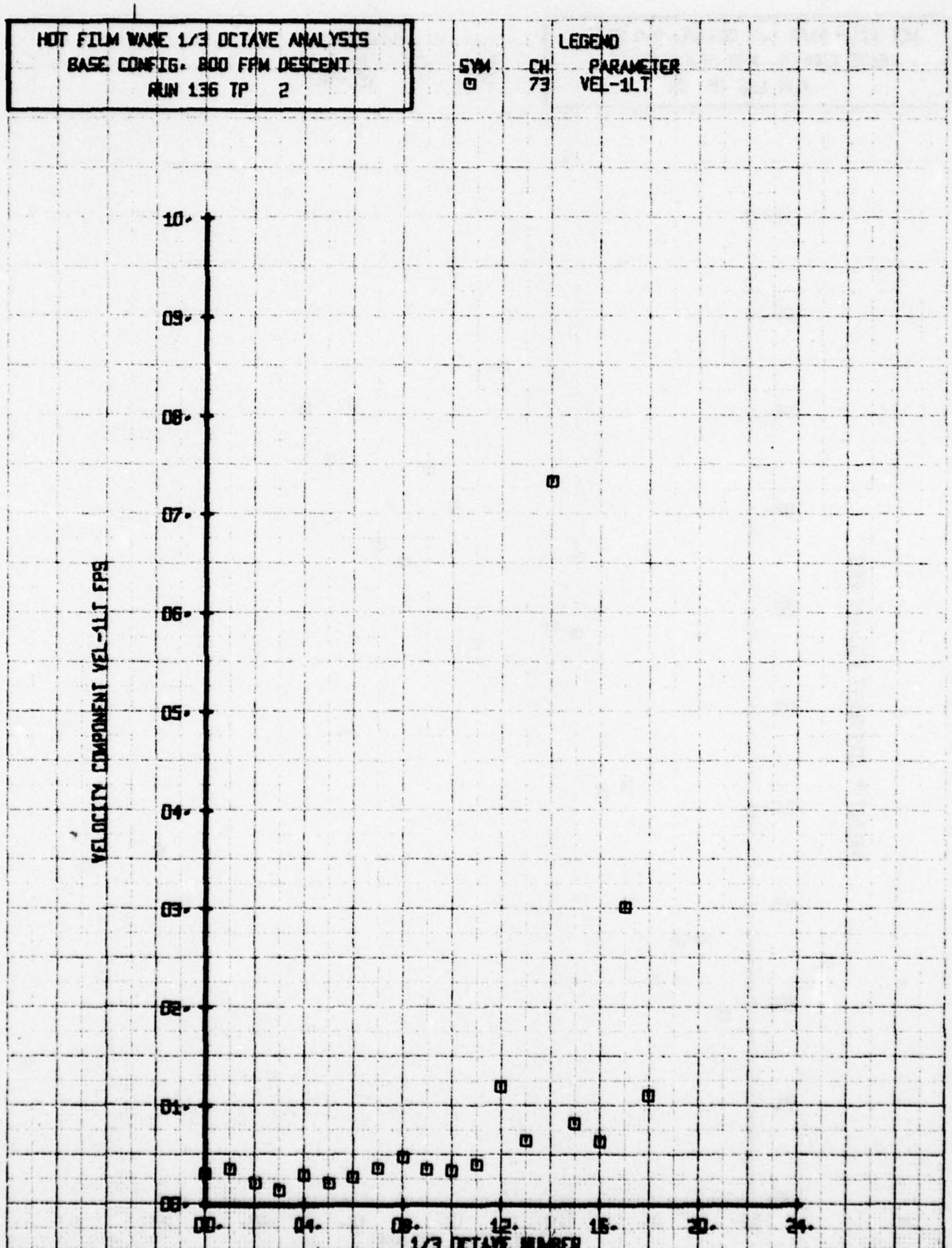
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BASE CONFIG. 800 FPM DESCENT
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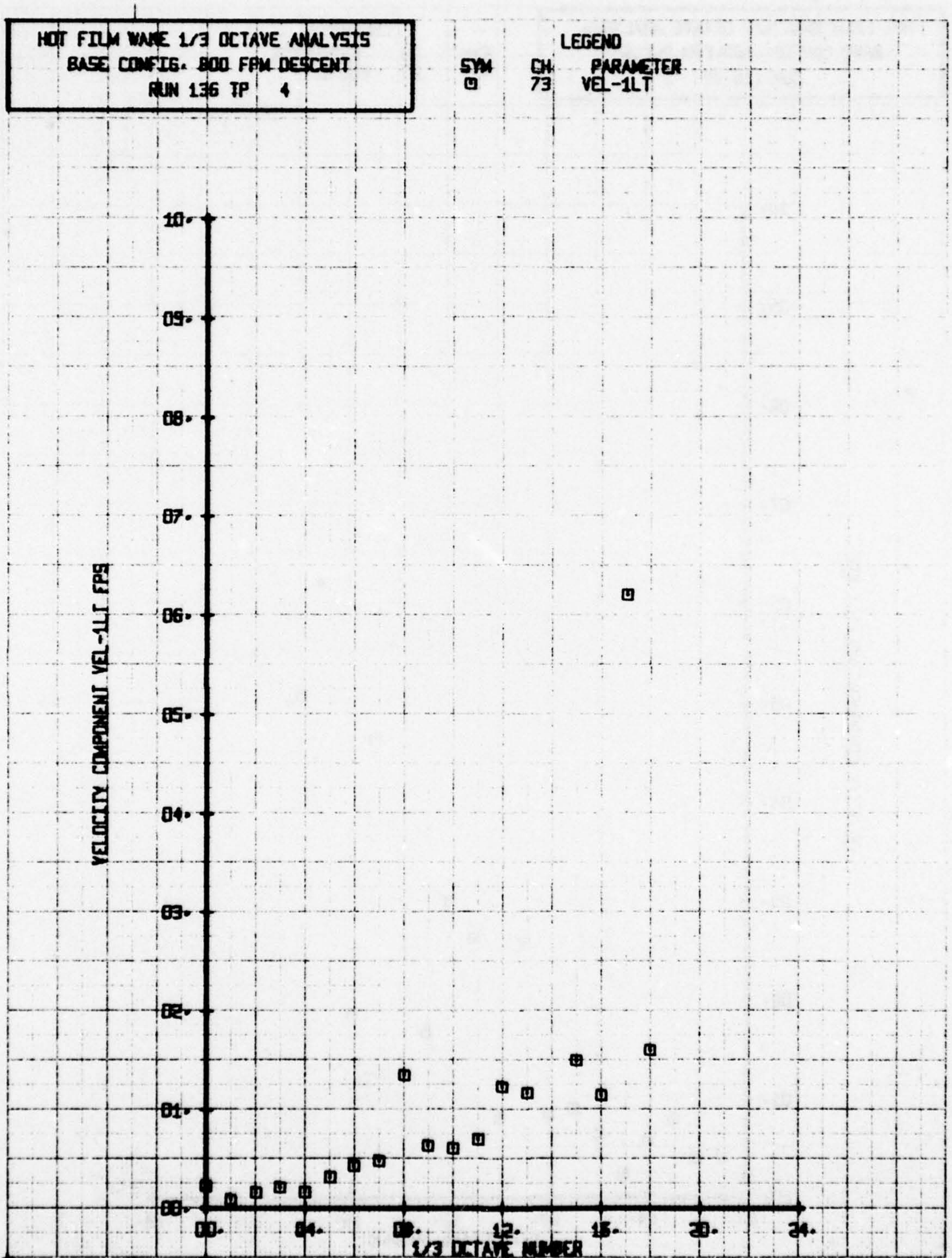
1/3 OCTAVE NUMBER



HOT FILM WAKE 1/3 OCTAVE ANALYSIS
BASE CONFIG. 800 FPM DESCENT
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LEGEND
SYM CH PARAMETER
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VELOCITY COMPONENT VEL-1LT FPS
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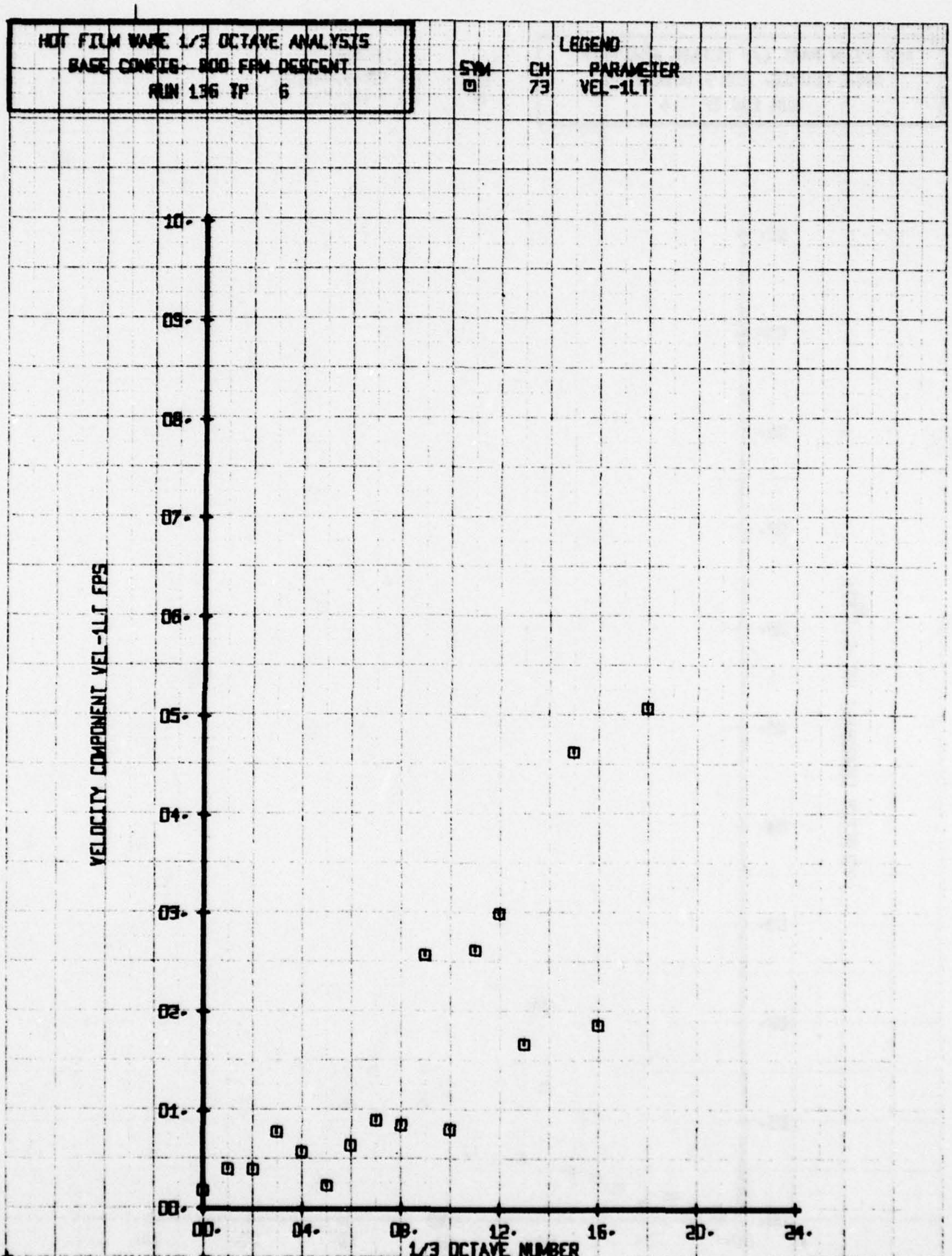
1/3 OCTAVE NUMBER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BASE CONFIG. 800 FPM DESCENT
RUN 136 TP 6
LEGEND
SYM CH PARAMETER
73 VEL-1LT
VELOCITY COMPONENT VEL-1LT FPS
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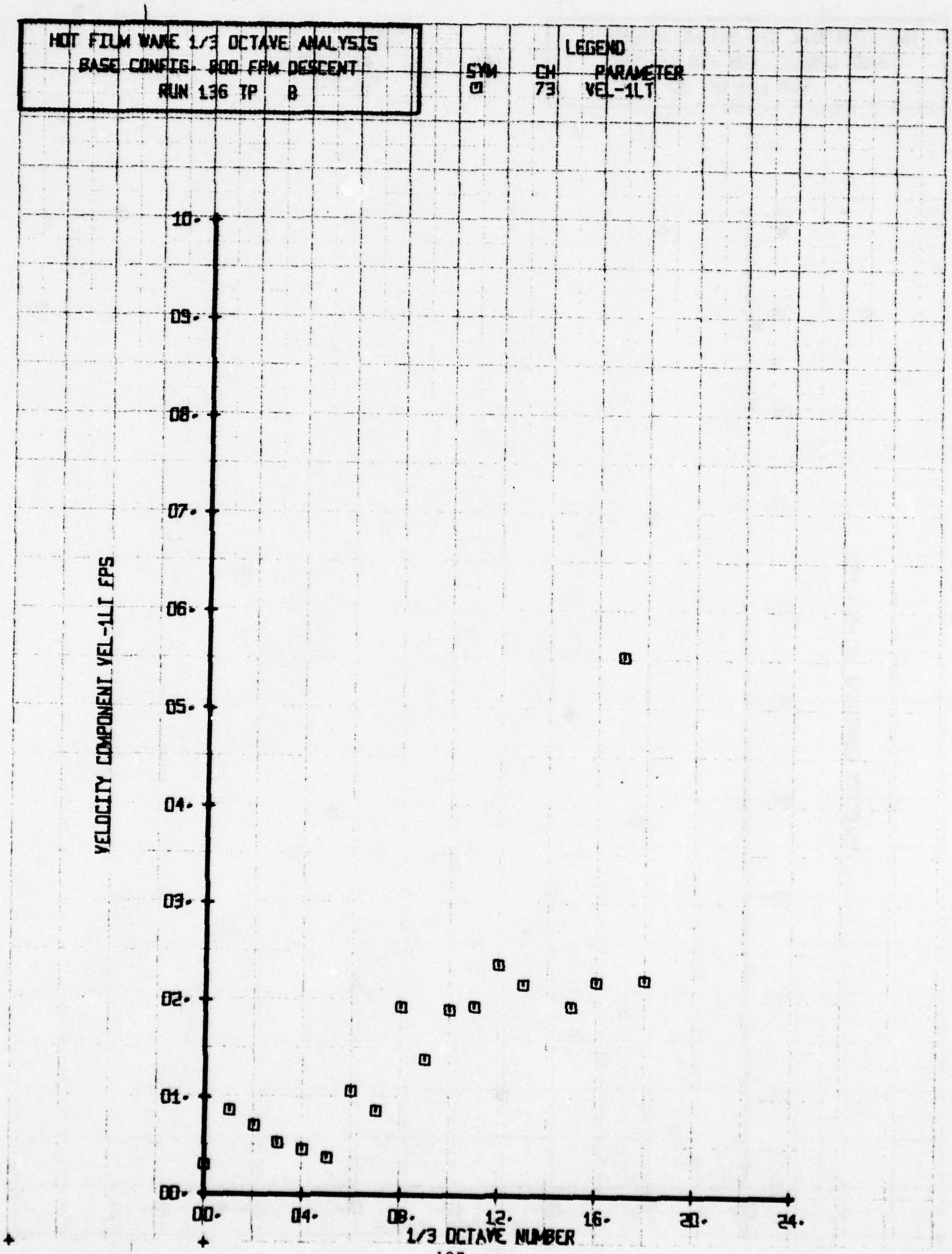
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SYM CH PARAMETER
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VELOCITY COMPONENT VEL-1LT FPS
1/3 OCTAVE NUMBER
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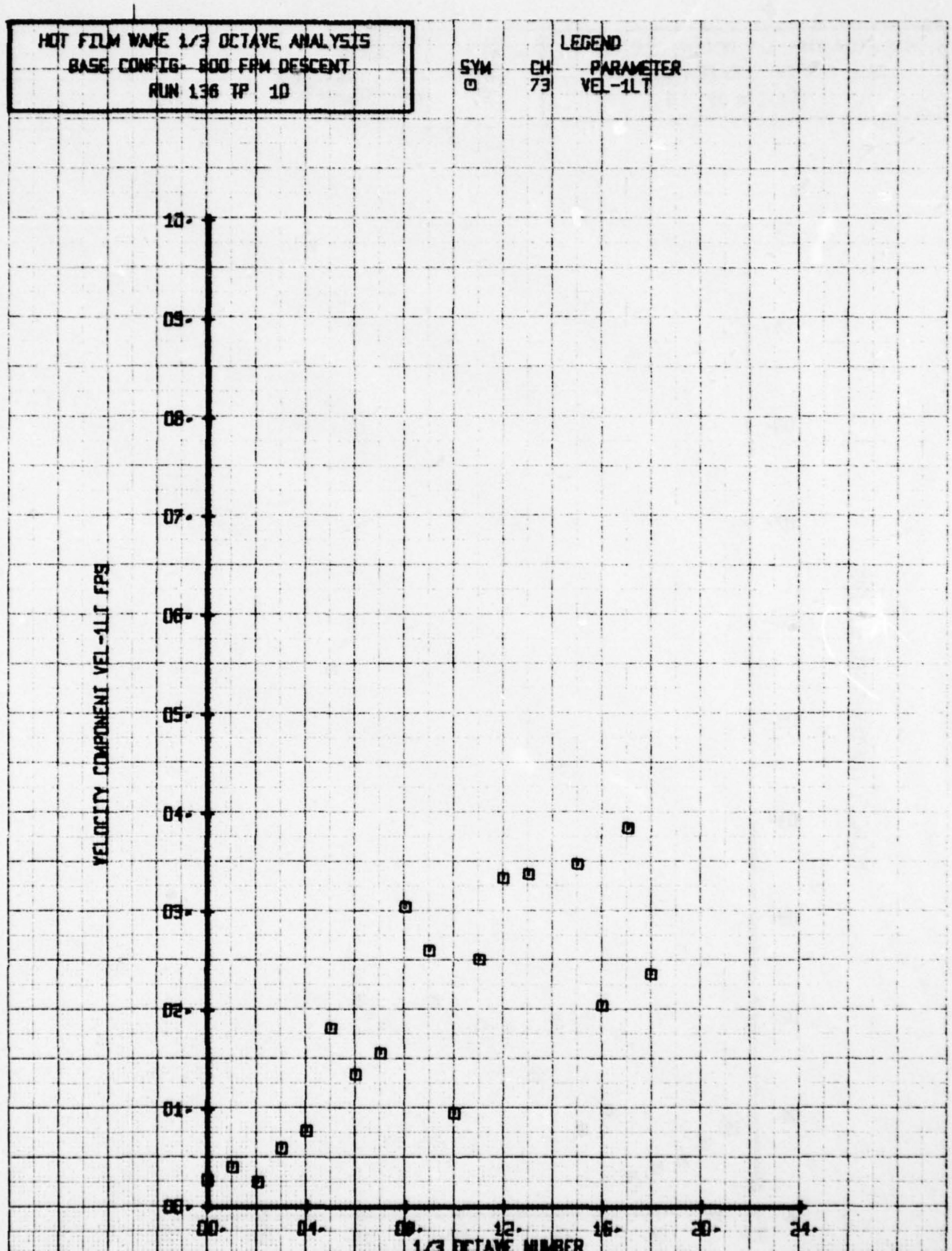

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BASE CONFIG- 800 FPM DESCENT
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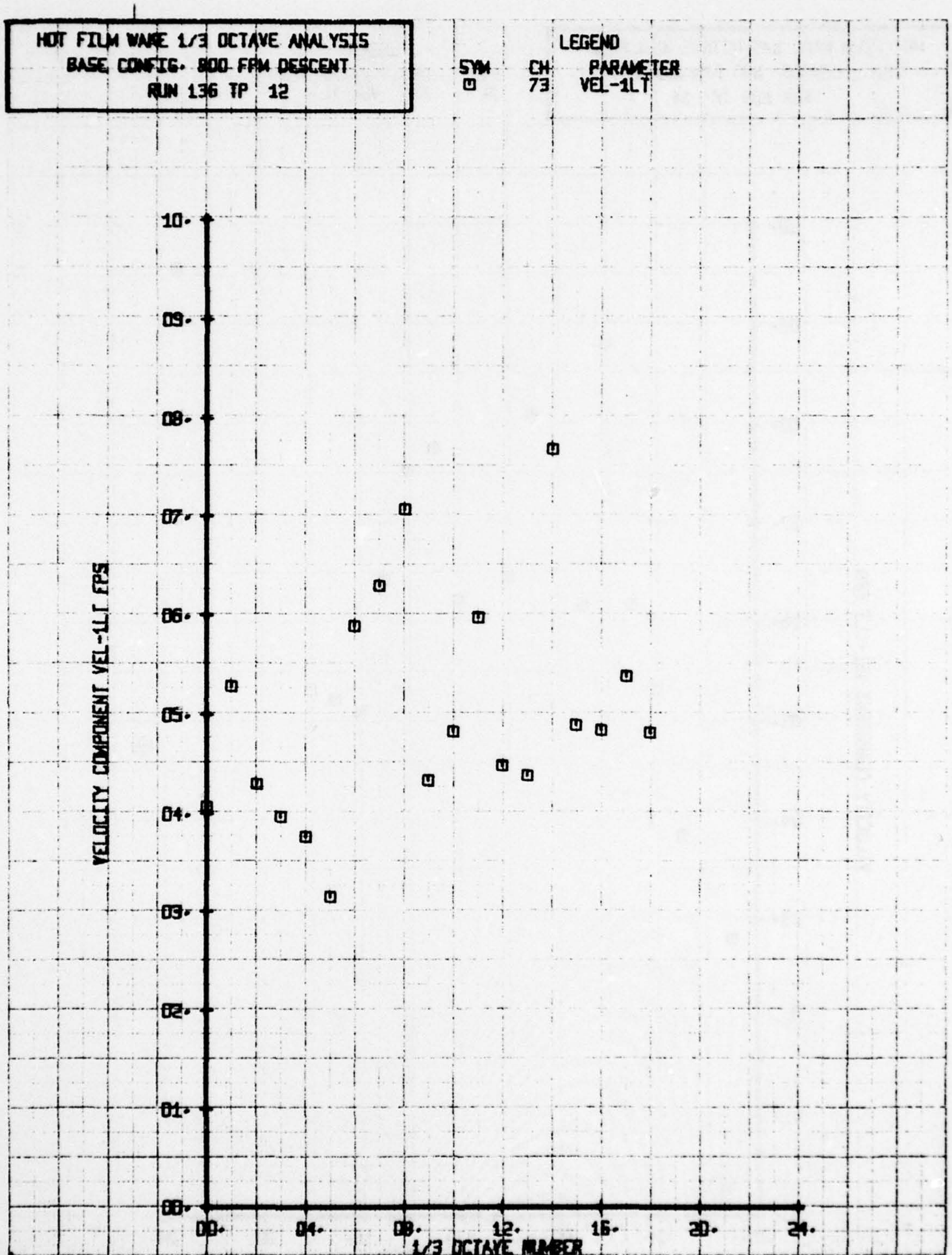
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
BASE CONFIG. 800 FPM DESCENT
RUN 136 TP 12
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VELOCITY COMPONENT VEL-1LT FPS
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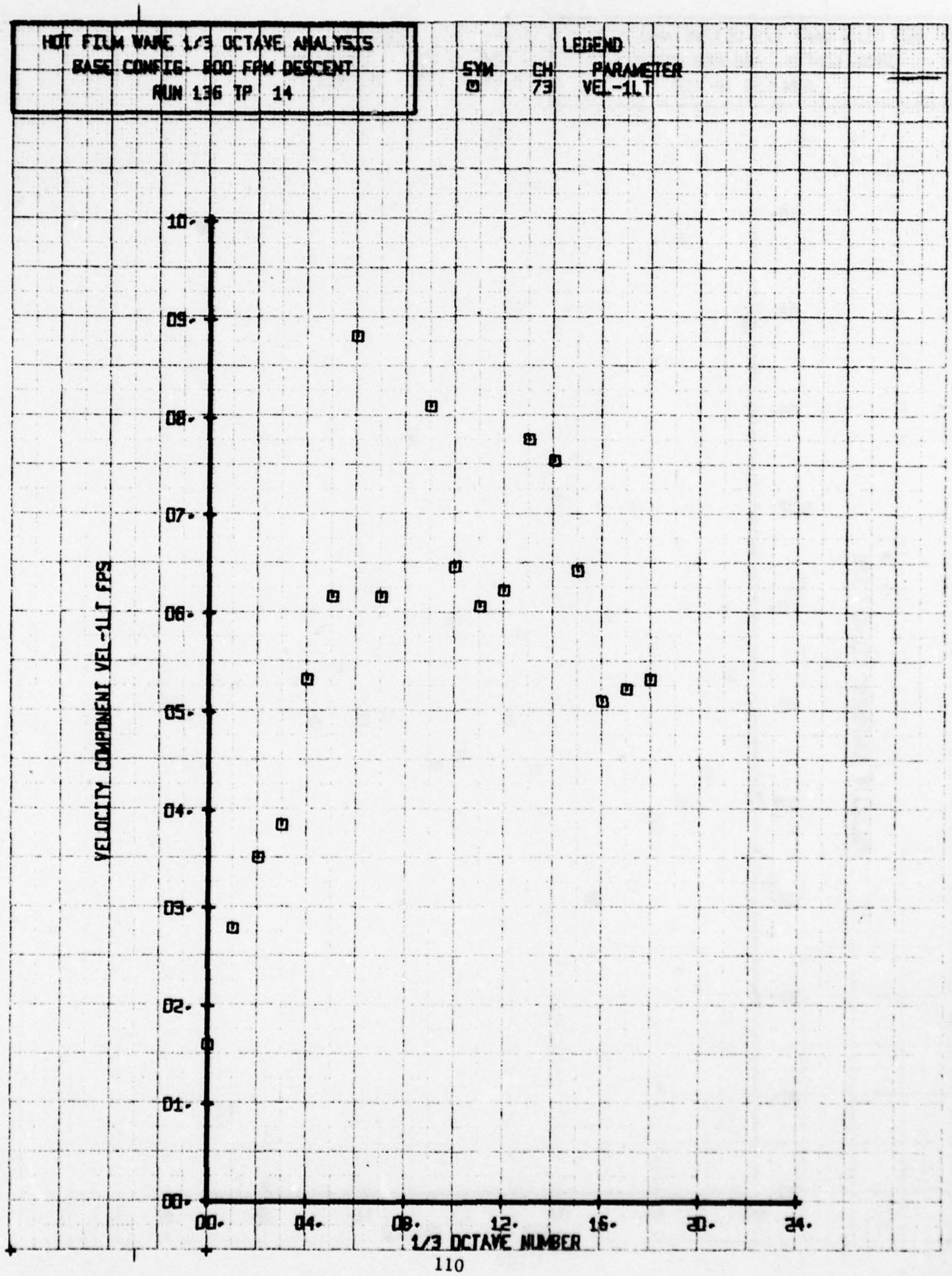

HOT FILM WAKE 1/3 OCTAVE ANALYSIS
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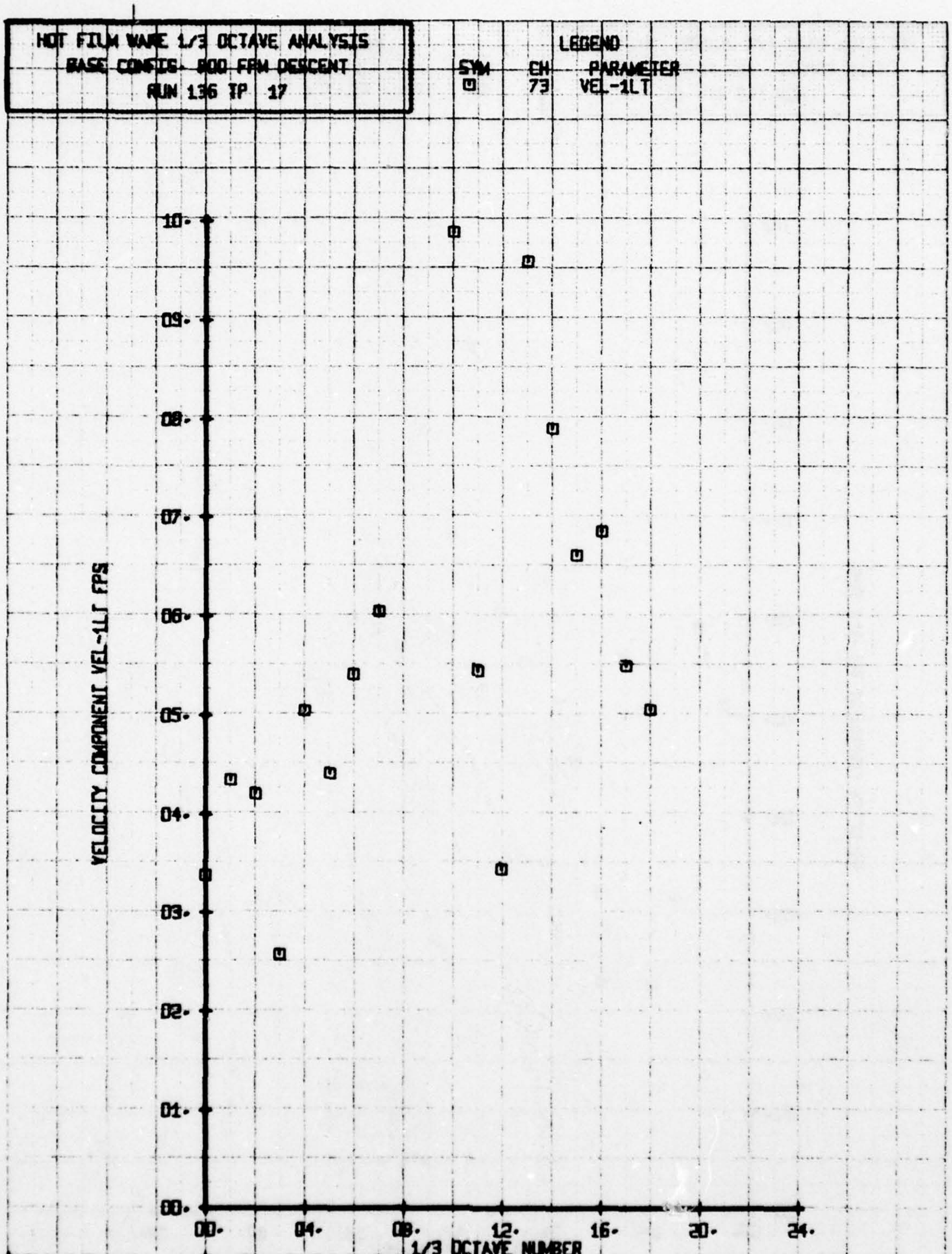
VELOCITY COMPONENT VEL-1LT FPS
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
BASE CONFIG. 800 FPM DESCENT
RUN 136 TP 17
LEGEND
SYM CH PARAMETER
73 VEL-1LT
VELOCITY COMPONENT VEL-1LT FPS
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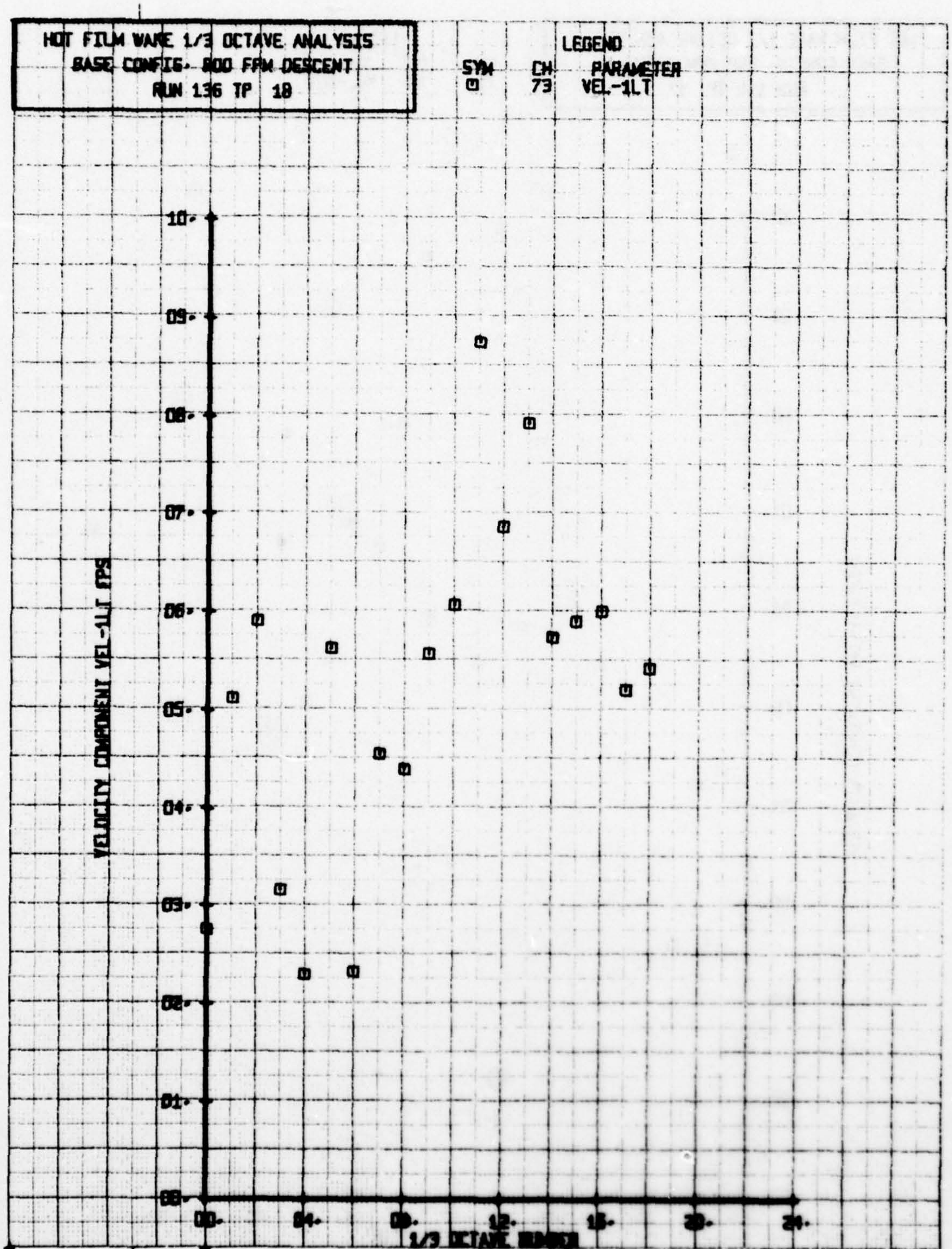
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
BASE CONFIG. 800 FPM DESCENT
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LEGEND
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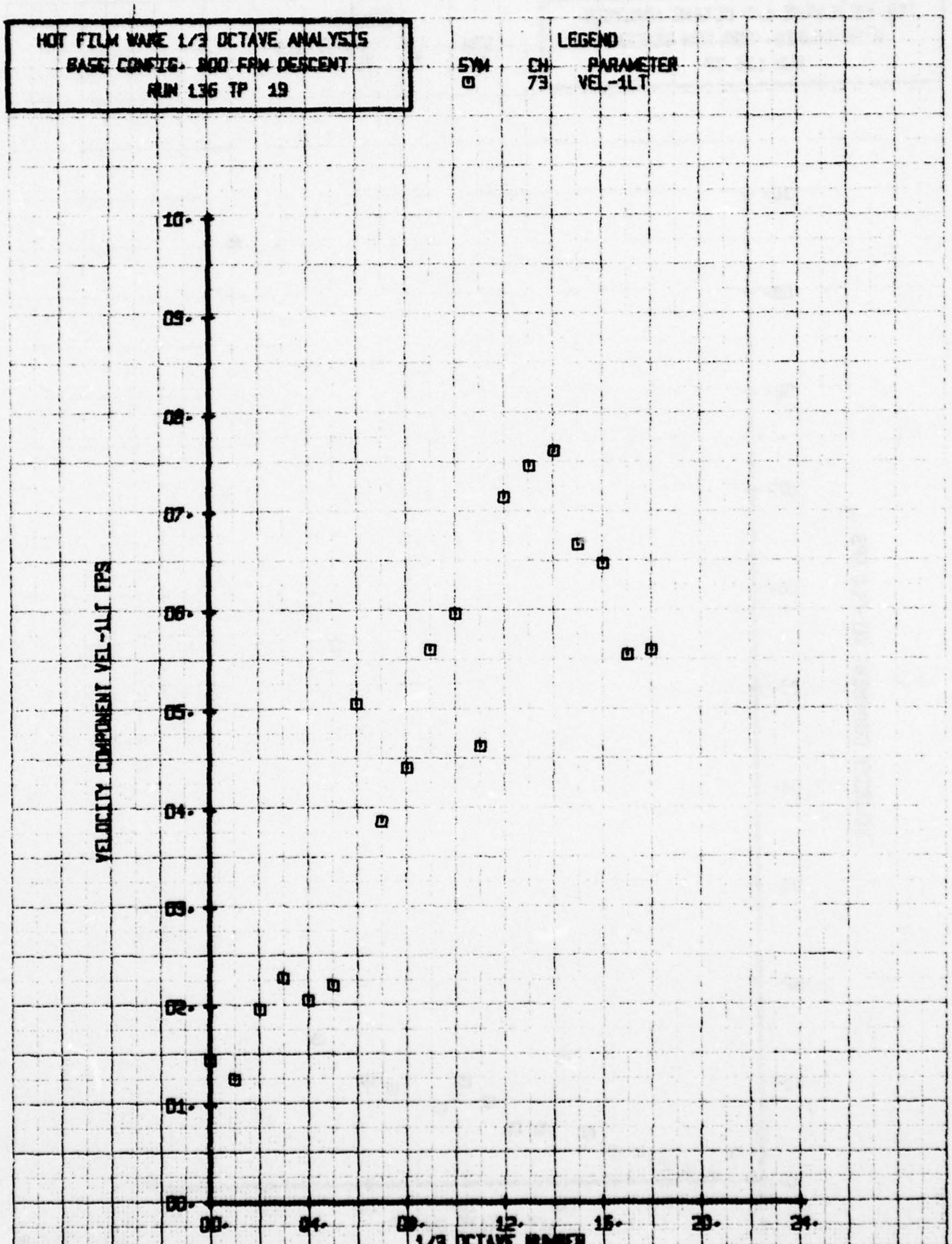
VELOCITY COMPONENT VEL-1LT FPS
1/3 OCTAVE NUMBER



HOT FILM WAKE 1/3 OCTAVE ANALYSIS
BASE CONFIG. 800 FPM DESCENT
RUN 136 TP 19
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SYM CH PARAMETER
73 VEL-1LT
VELOCITY COMPONENT VEL-1LT FPS
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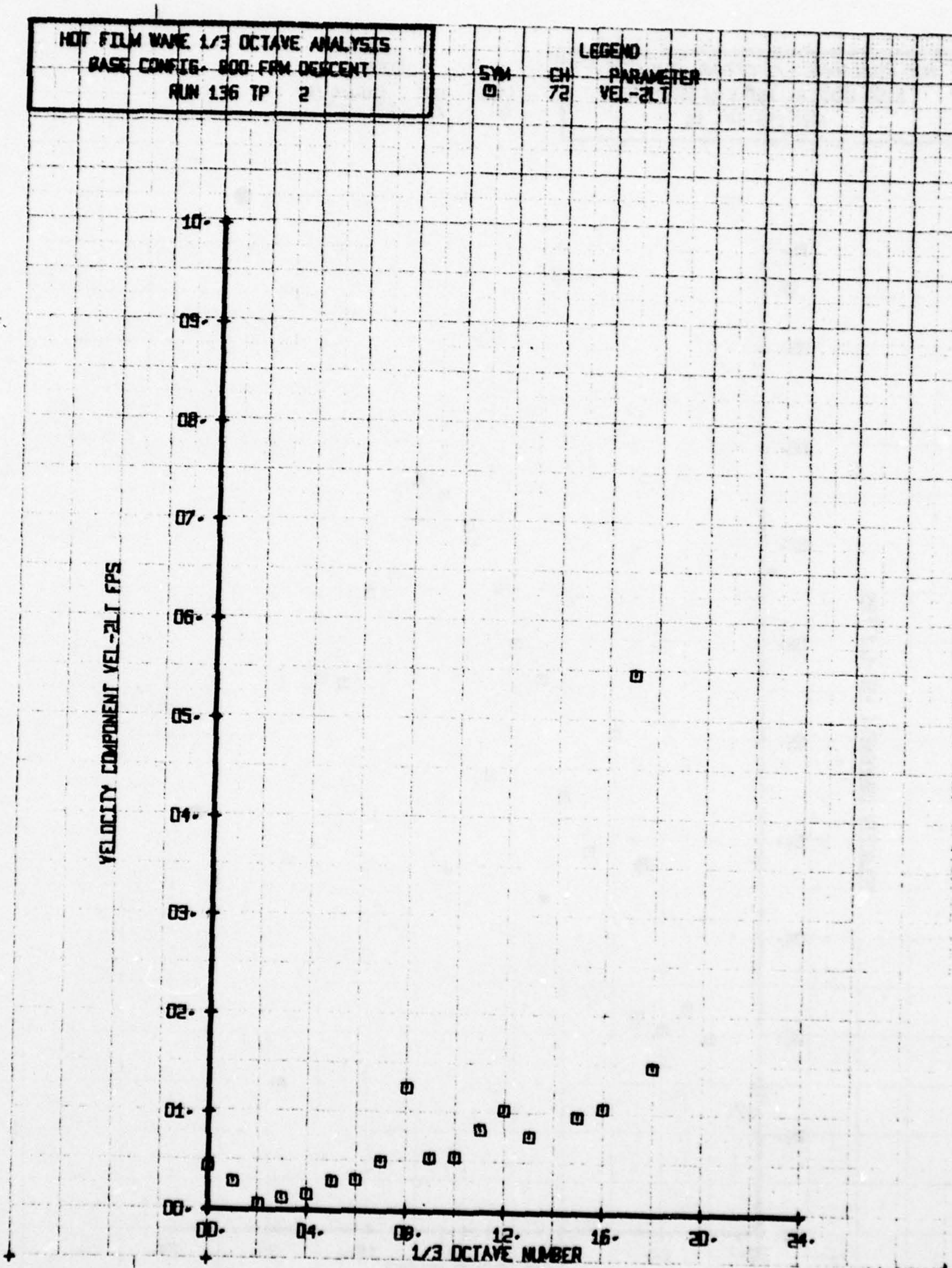
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LEGEND
SYM CH PARAMETER
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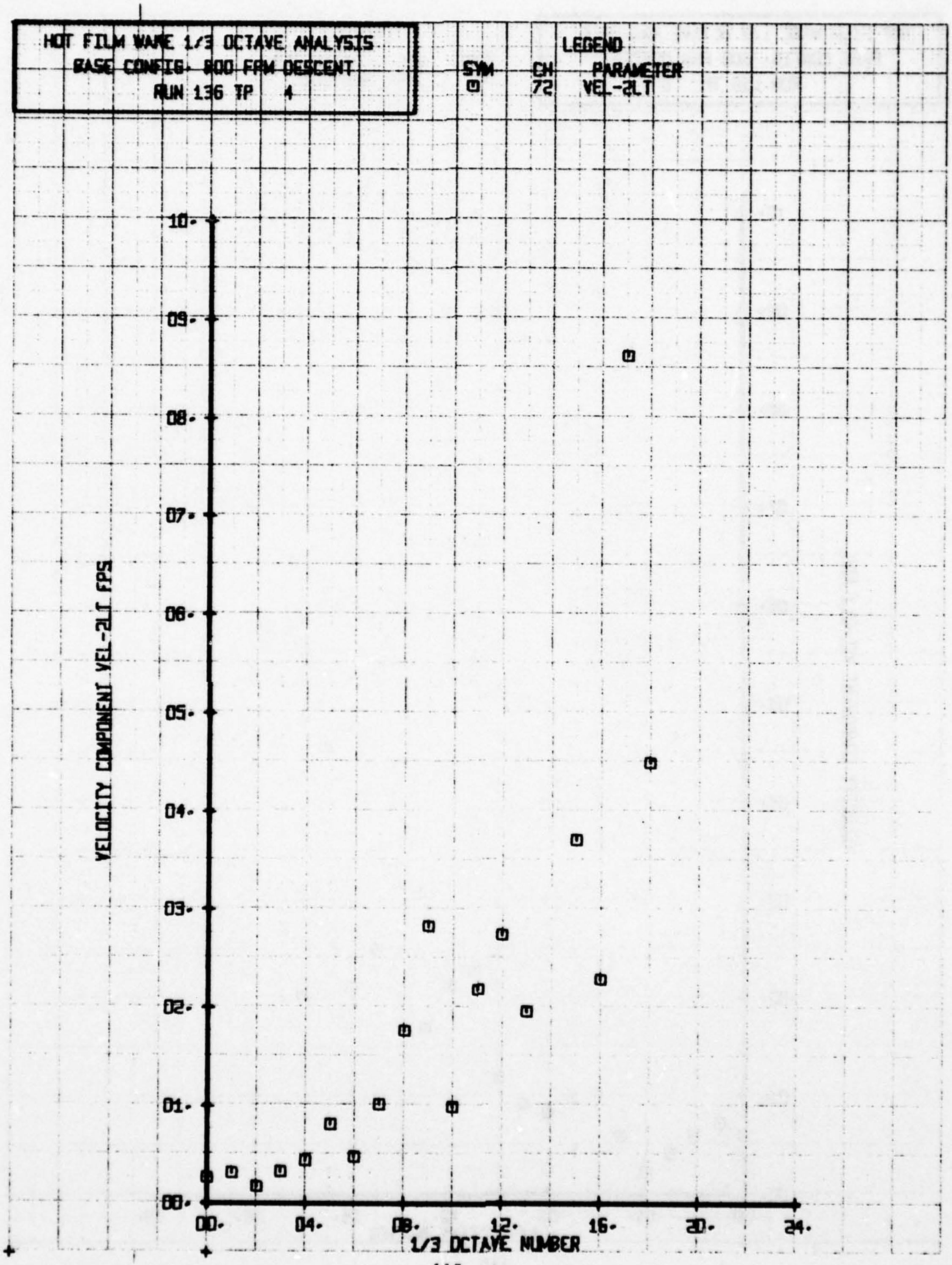
VELOCITY COMPONENT VEL-2LT FPS
1/3 OCTAVE NUMBER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BASE CONFIG- 800 FPM DESCENT
RUN 136 TP 4
LEGEND
SYM CH PARAMETER
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VELOCITY COMPONENT VEL-2LT FPS
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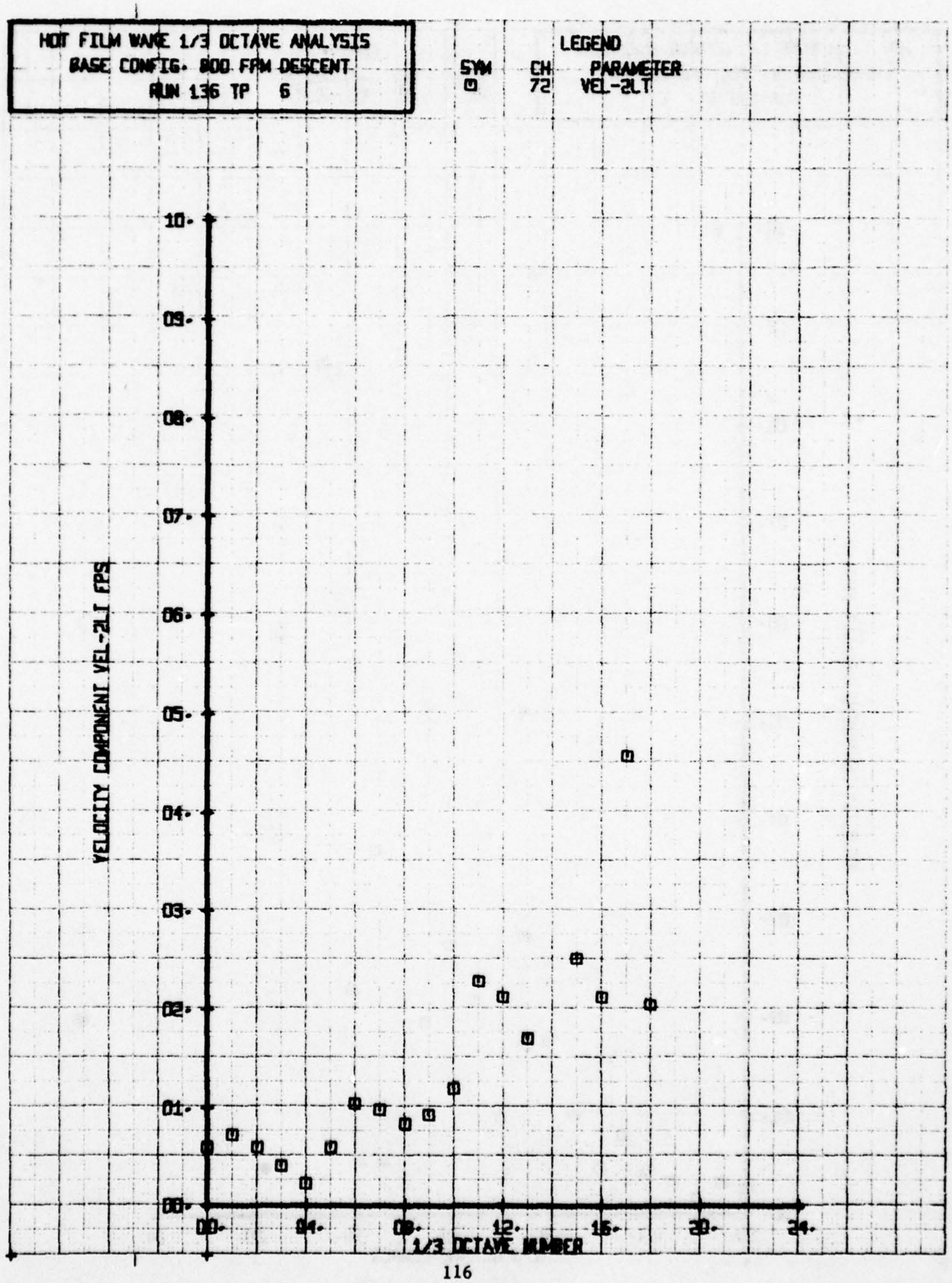
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BASE CONFIG. 800 FPM DESCENT
RUN 136 TP 6
LEGEND
SYM CH PARAMETER
72 VEL-2LT
VELOCITY COMPONENT VEL-2LT FPS
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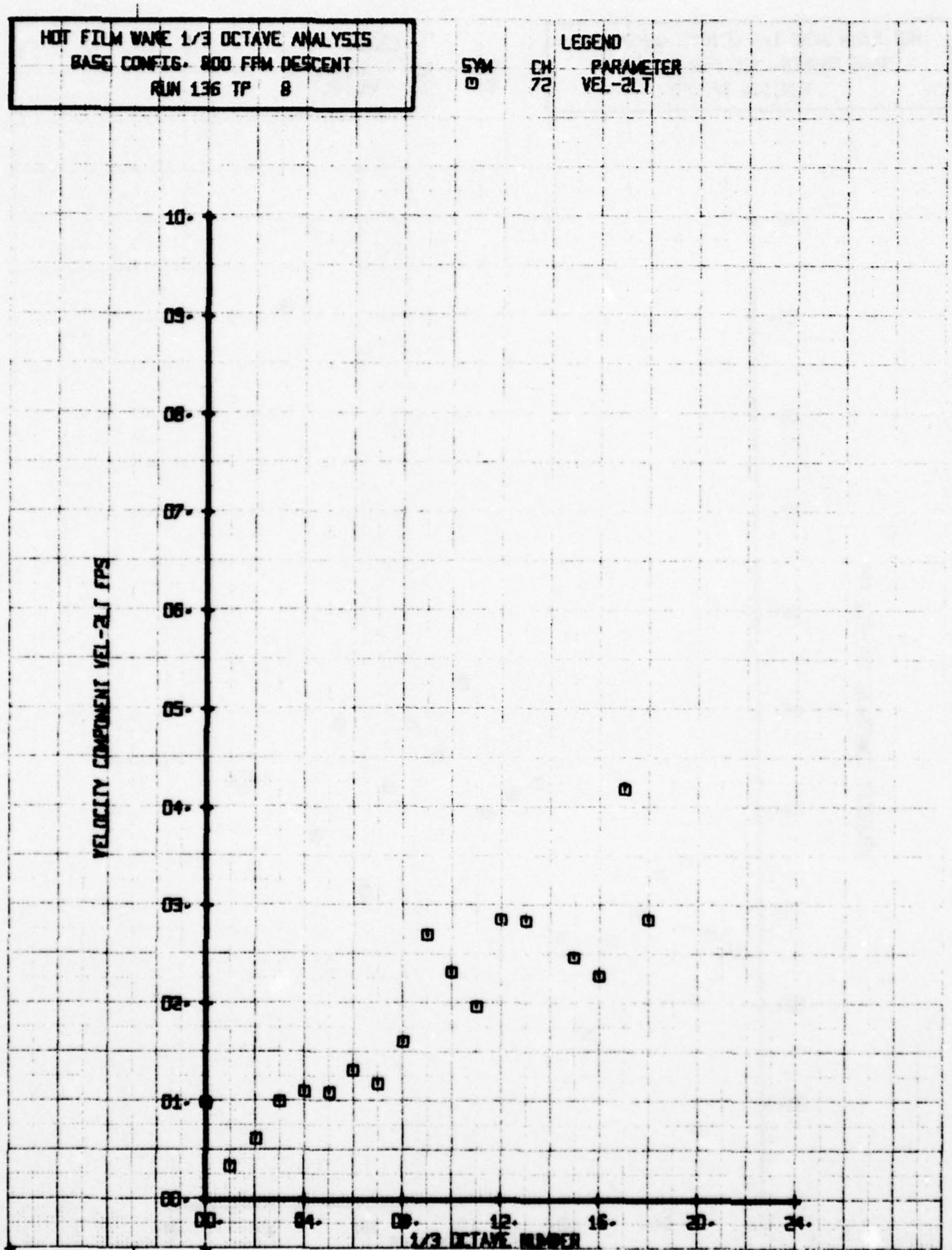
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BASE CONFIG. 800 FPM DESCENT
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LEGEND
SYM CH PARAMETER
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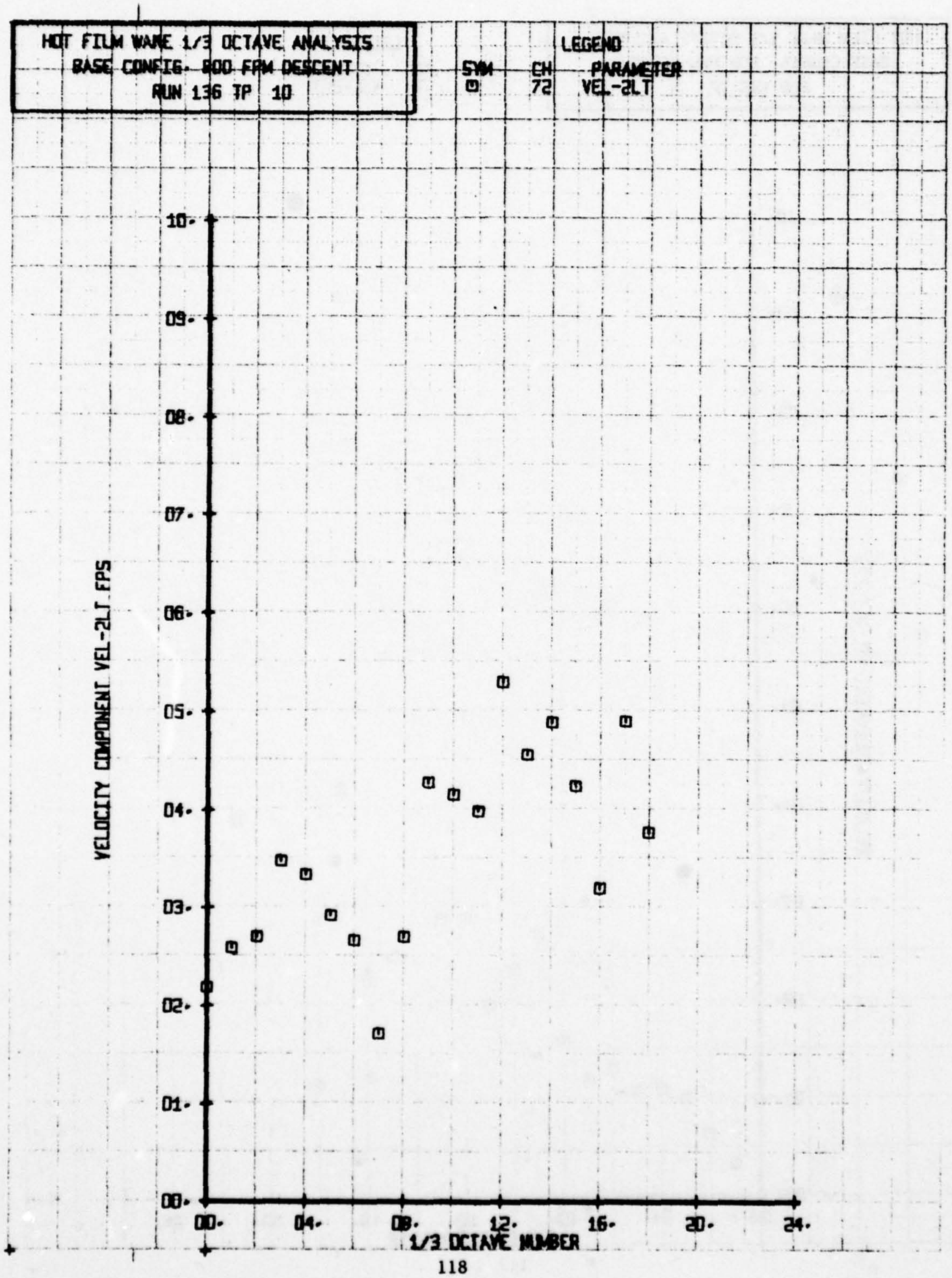
VELOCITY COMPONENT VEL-2LT FPS
1/3 OCTAVE NUMBER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BASE CONFIG- 800 FPM DESCENT
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LEGEND
SYM CH PARAMETER
72 VEL-2LT
VELOCITY COMPONENT VEL-2LT FPS
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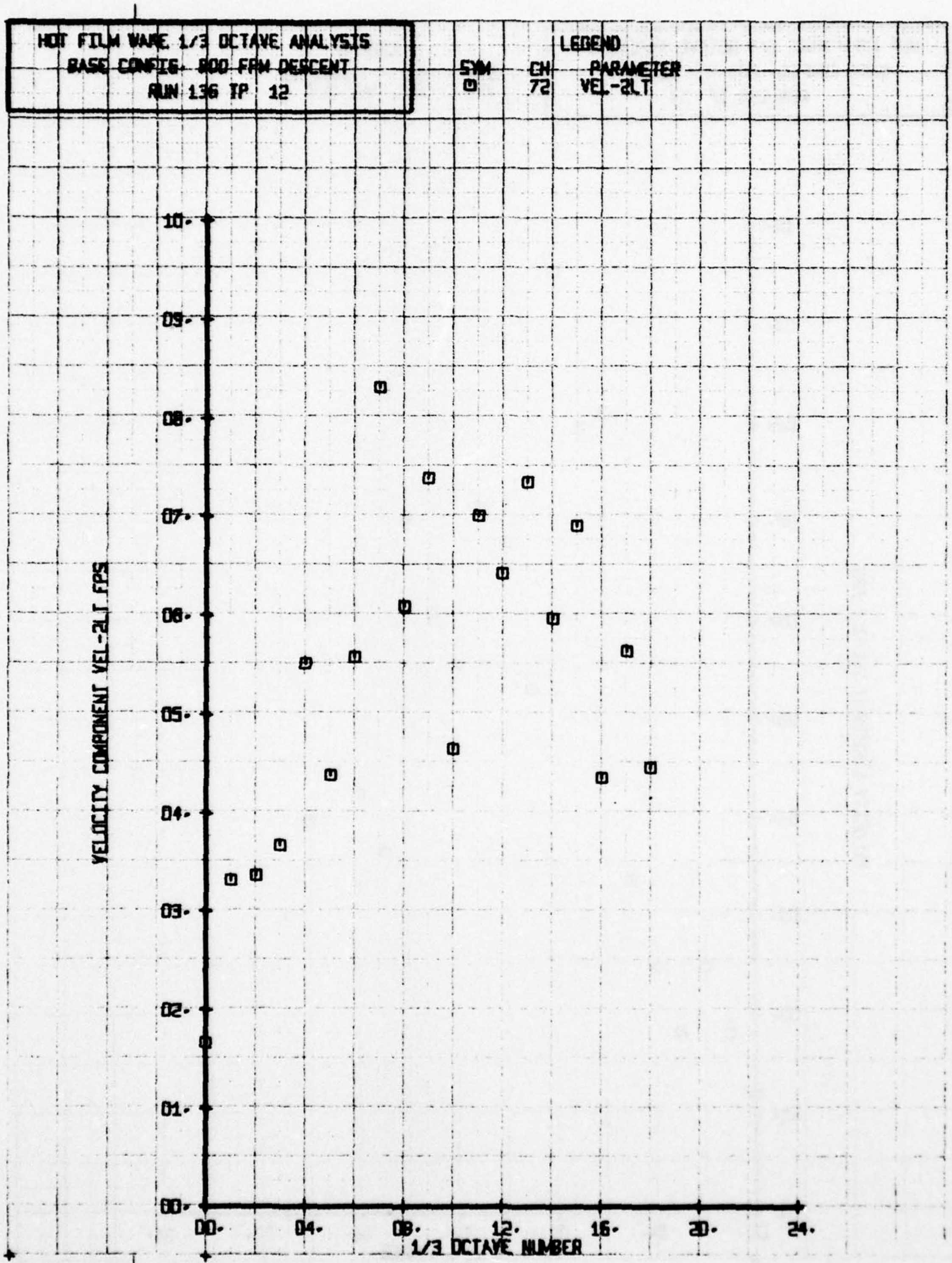
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BASE CONFIG. 800 FPM DESCENT
RUN 136 TP 12
LEGEND
SYM CH PARAMETER
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VELOCITY COMPONENT VEL-2LT FPS
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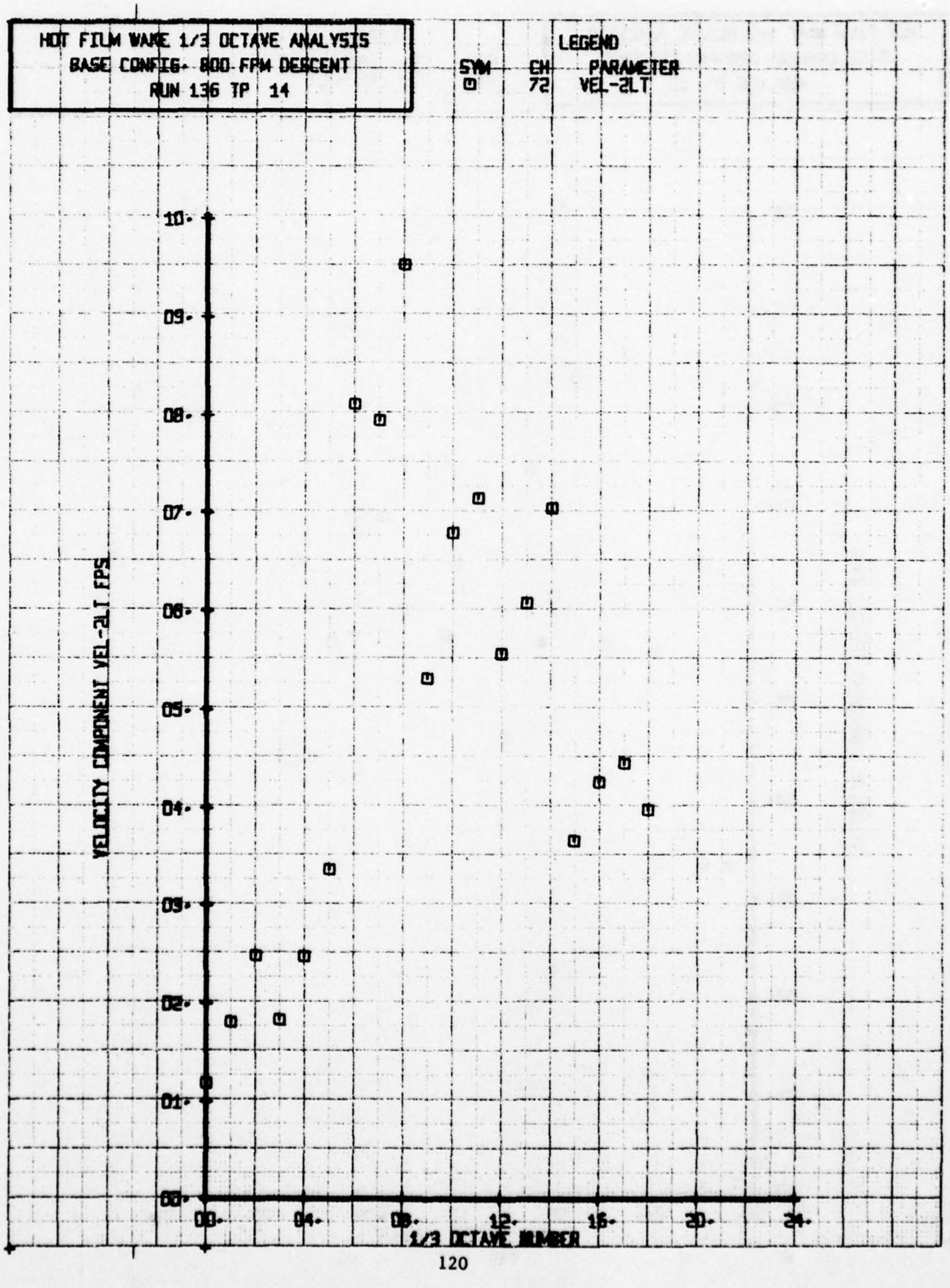

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BASE CONFIG- 800 FPM DESCENT
RUN 136 TP 14
LEGEND
SYM CH PARAMETER
72 VEL-2LT
VELOCITY COMPONENT VEL-2LT FPS
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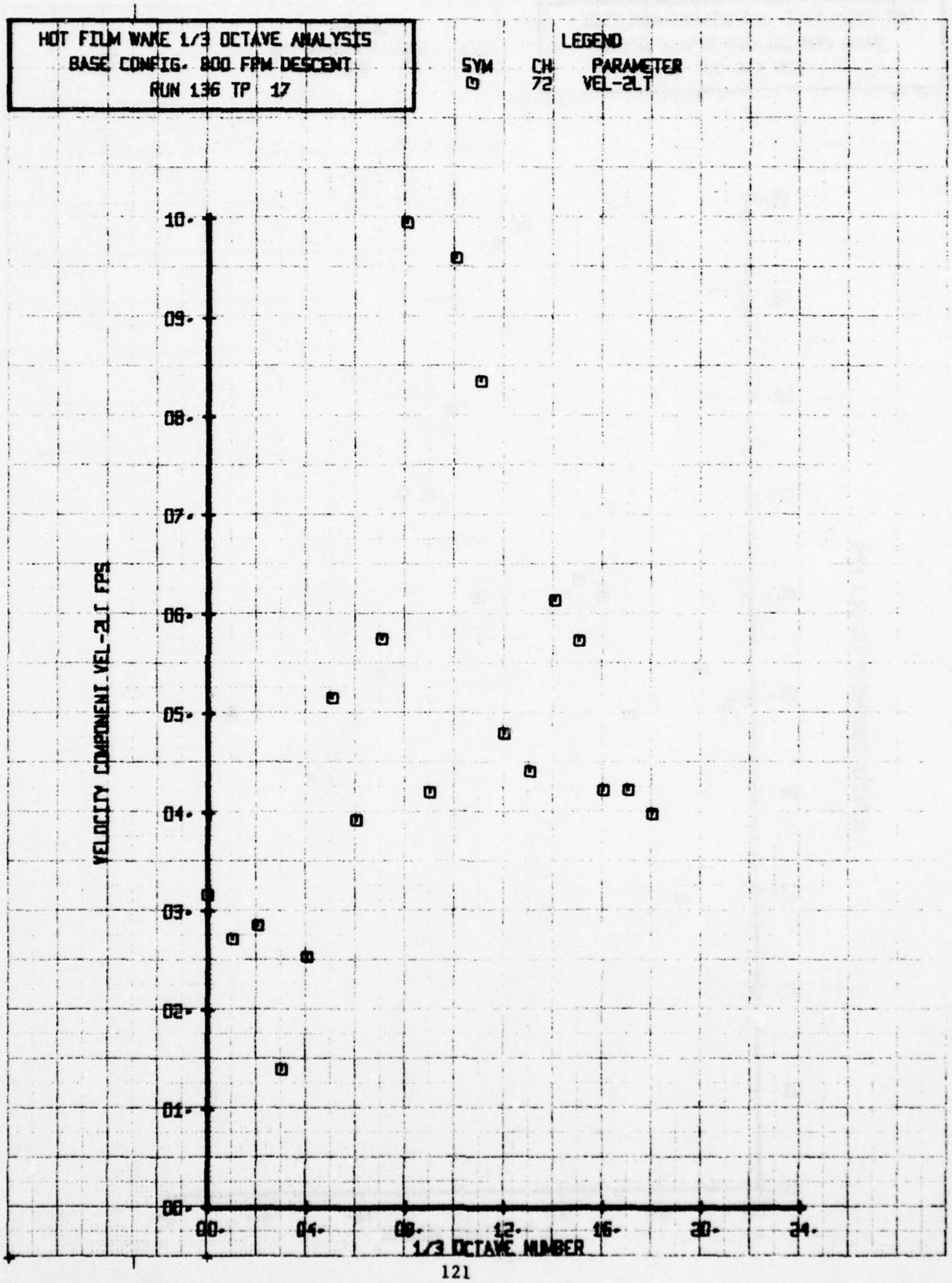
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
BASE CONFIG. 800 FPM DESCENT
RUN 136 TP 17
LEGEND
SYM CH PARAMETER
72 VEL-2LT
VELOCITY COMPONENT VEL-2LT FPS
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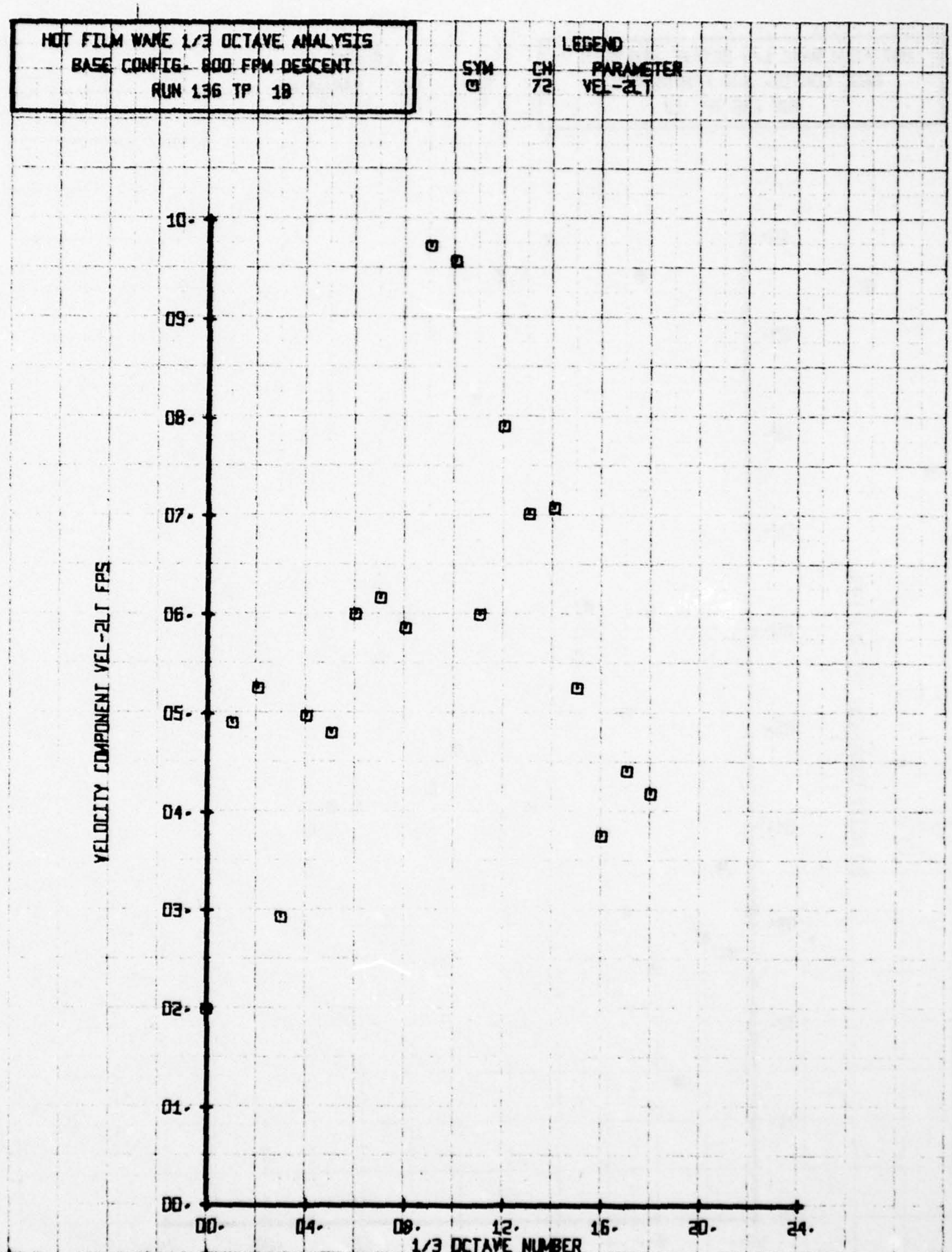
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
BASE CONFIG- 800 FPM DESCENT
RUN 136 TP 18
LEGEND
SYM CH PARAMETER
72 VEL-2LT
VELOCITY COMPONENT VEL-2LT FPS
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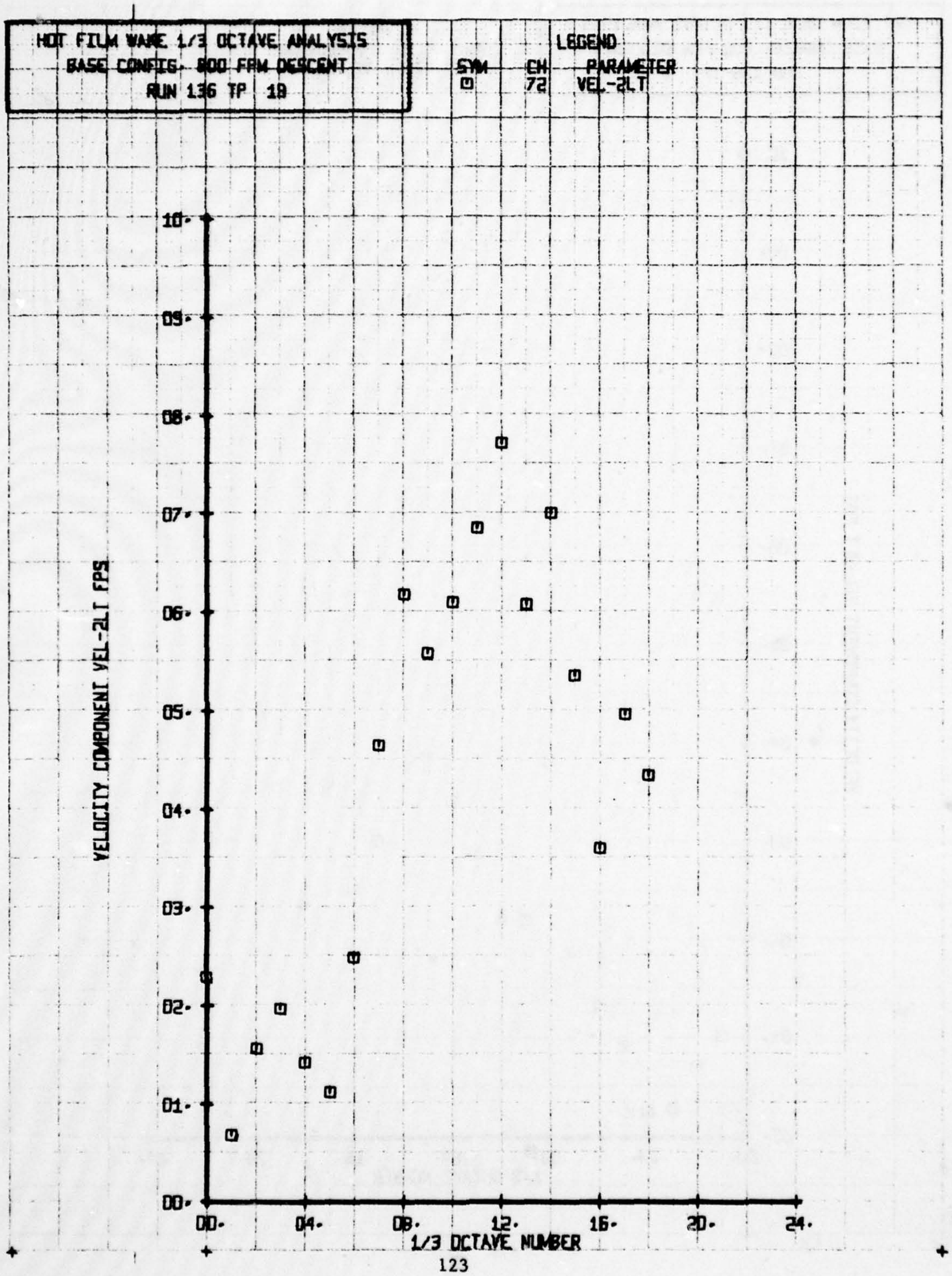
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
BASE CONFIG. 800 FPM DESCENT
RUN 136 TP 18
LEGEND
SYM CH PARAMETER
72 VEL-2LT
VELOCITY COMPONENT VEL-2LT FPS
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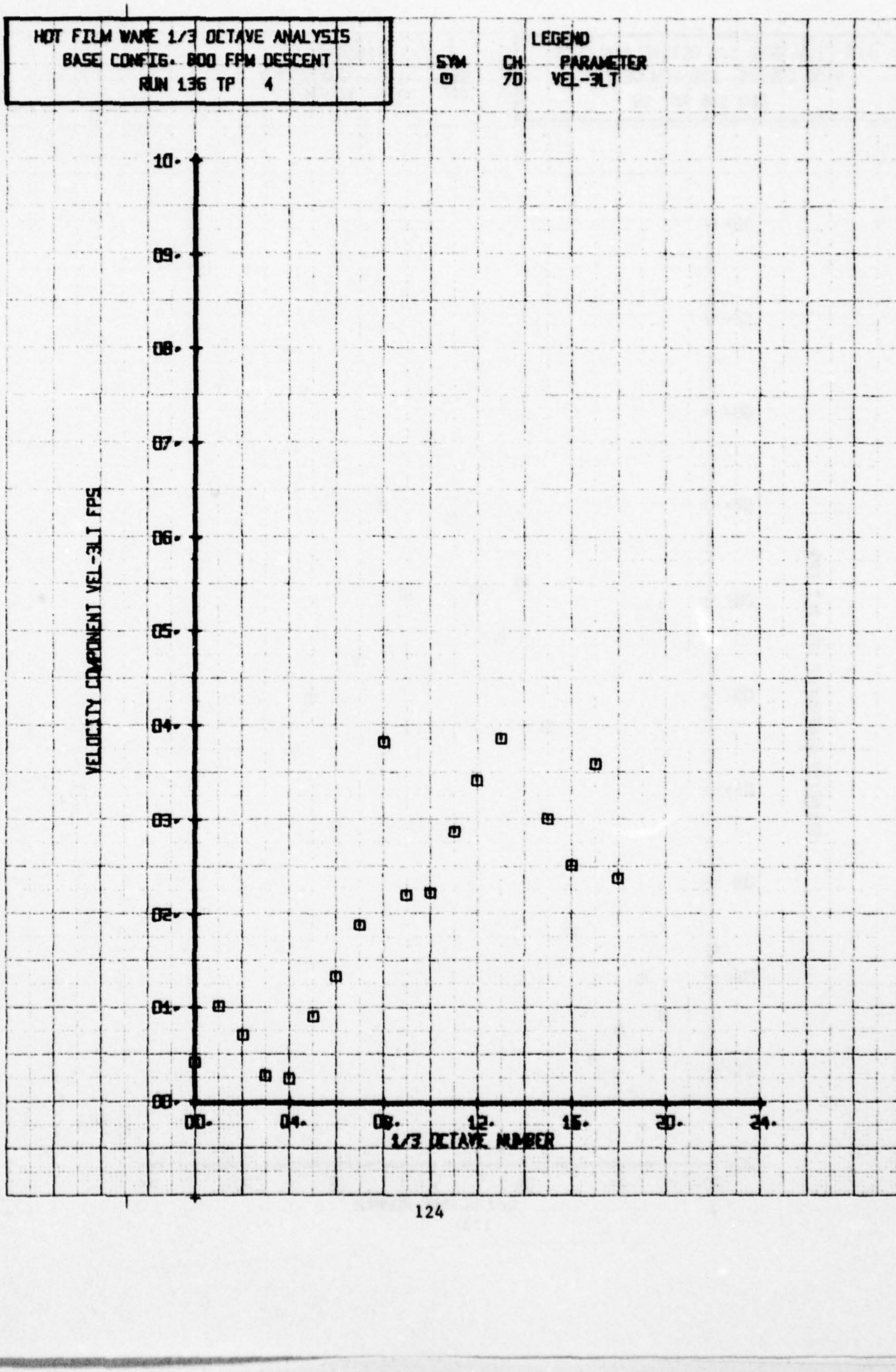
1/3 OCTAVE NUMBER



HOT FILM WAKE 1/3 OCTAVE ANALYSIS
BASE CONFIG. 800 FPM DESCENT
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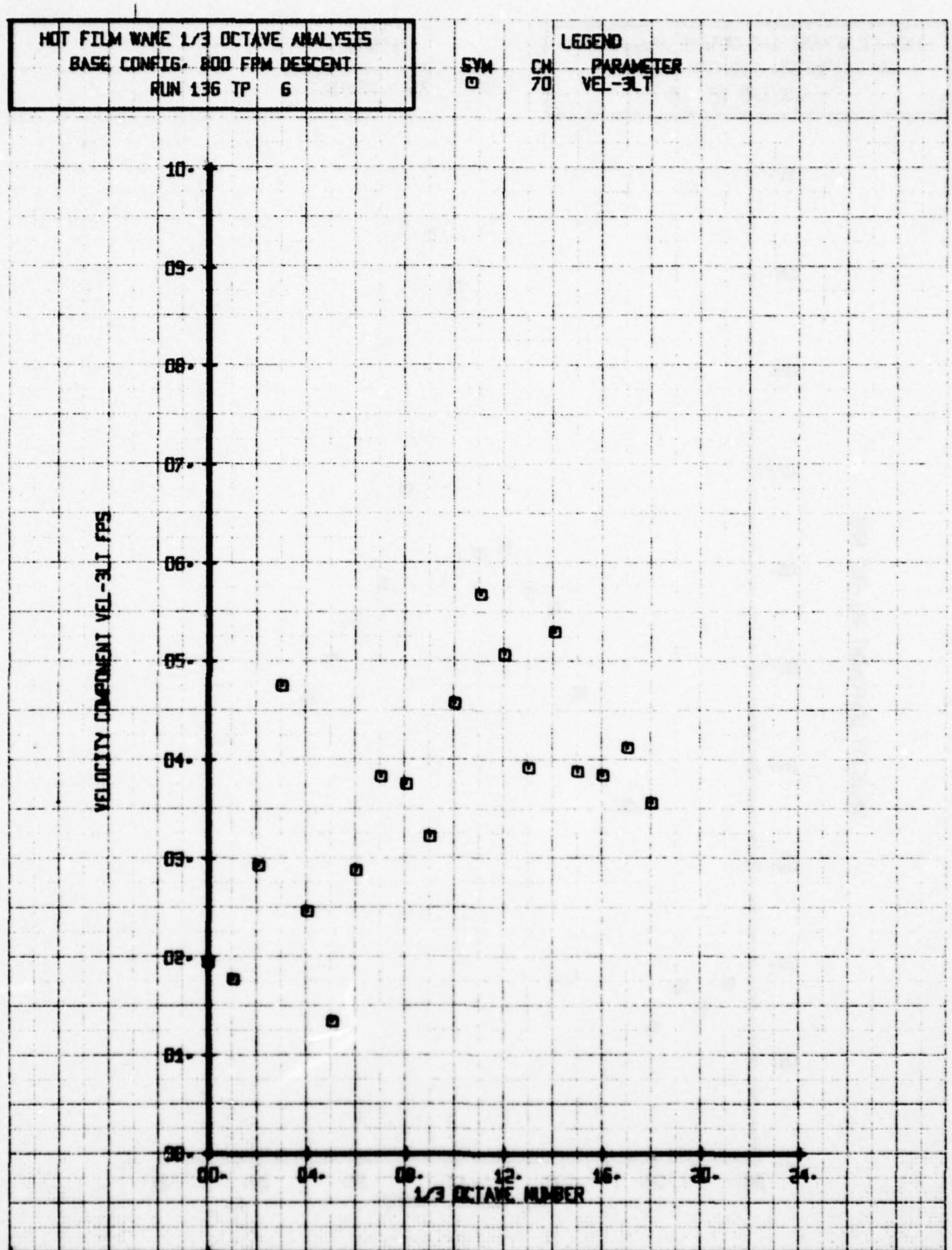
LEGEND
SYM CH PARAMETER
7D VEL-3LT
VELOCITY COMPONENT VEL-3LT FPS
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
BASE CONFIG. 800 FPM DESCENT
RUN 136 TP 6
LEGEND
SYM CH PARAMETER
70 VEL-3LT
VELOCITY COMPONENT VEL-3LT FPS
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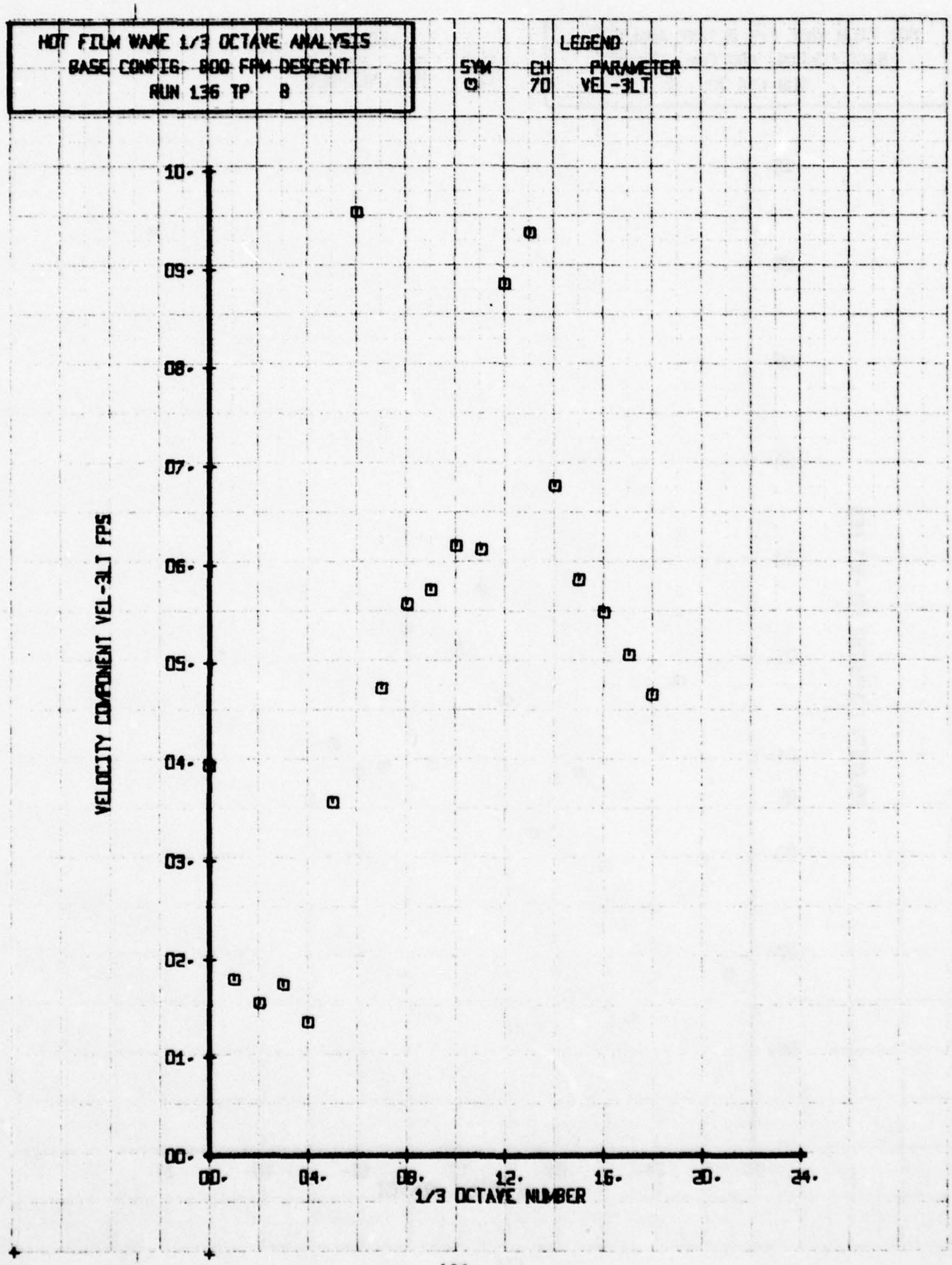
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
BASE CONFIG. 800 FPM DESCENT
RUN 136 TP 8
LEGEND
SYM CH PARAMETER
70 VEL-3LT
VELOCITY COMPONENT VEL-3LT FPS
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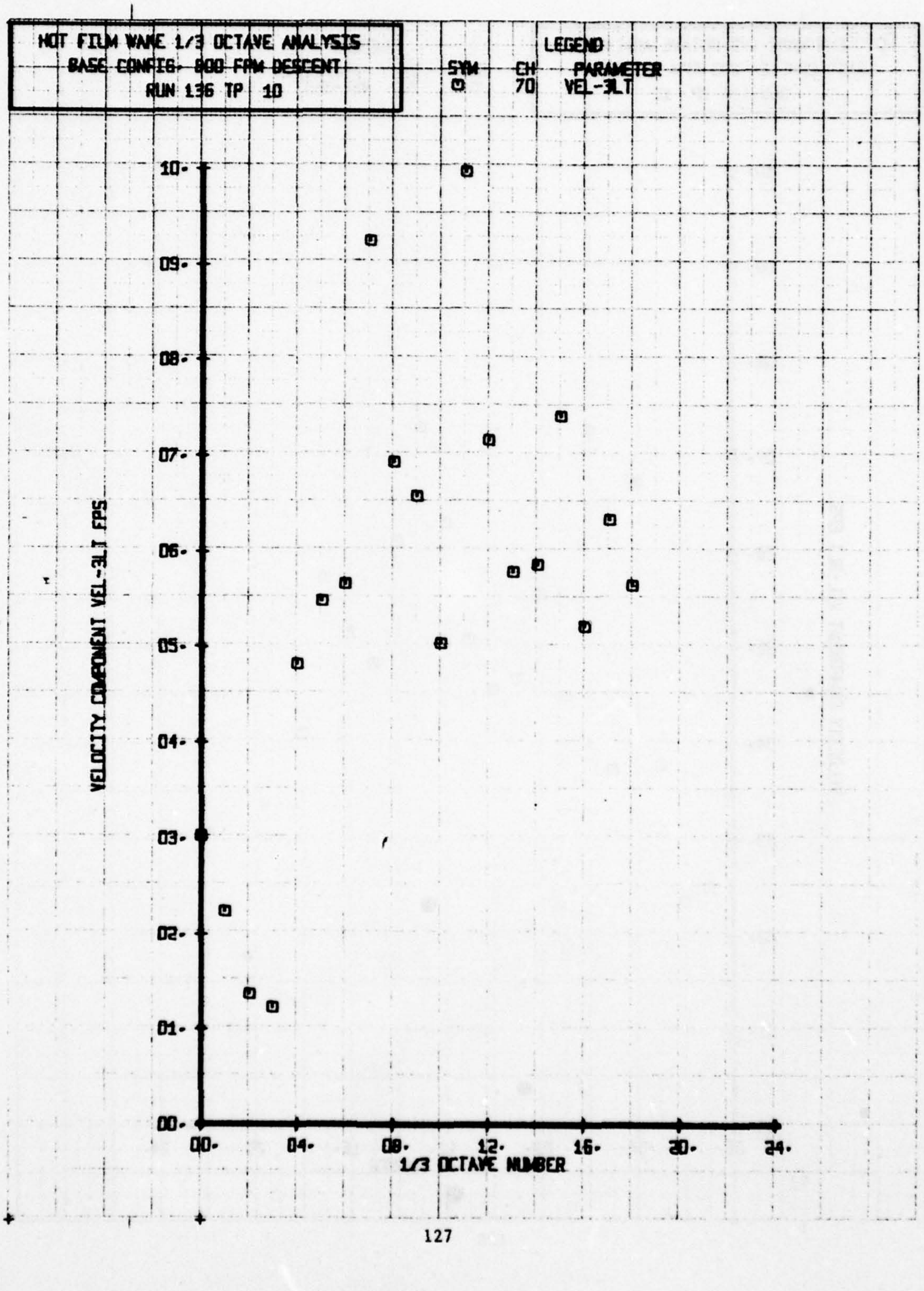
1/3 OCTAVE NUMBER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BASE CONFIG- 800 FPM DESCENT
RUN 136 TP 10
LEGEND
SYM CH PARAMETER
70 VEL-3LT
VELOCITY COMPONENT VEL-3LT FPS
1/3 OCTAVE NUMBER
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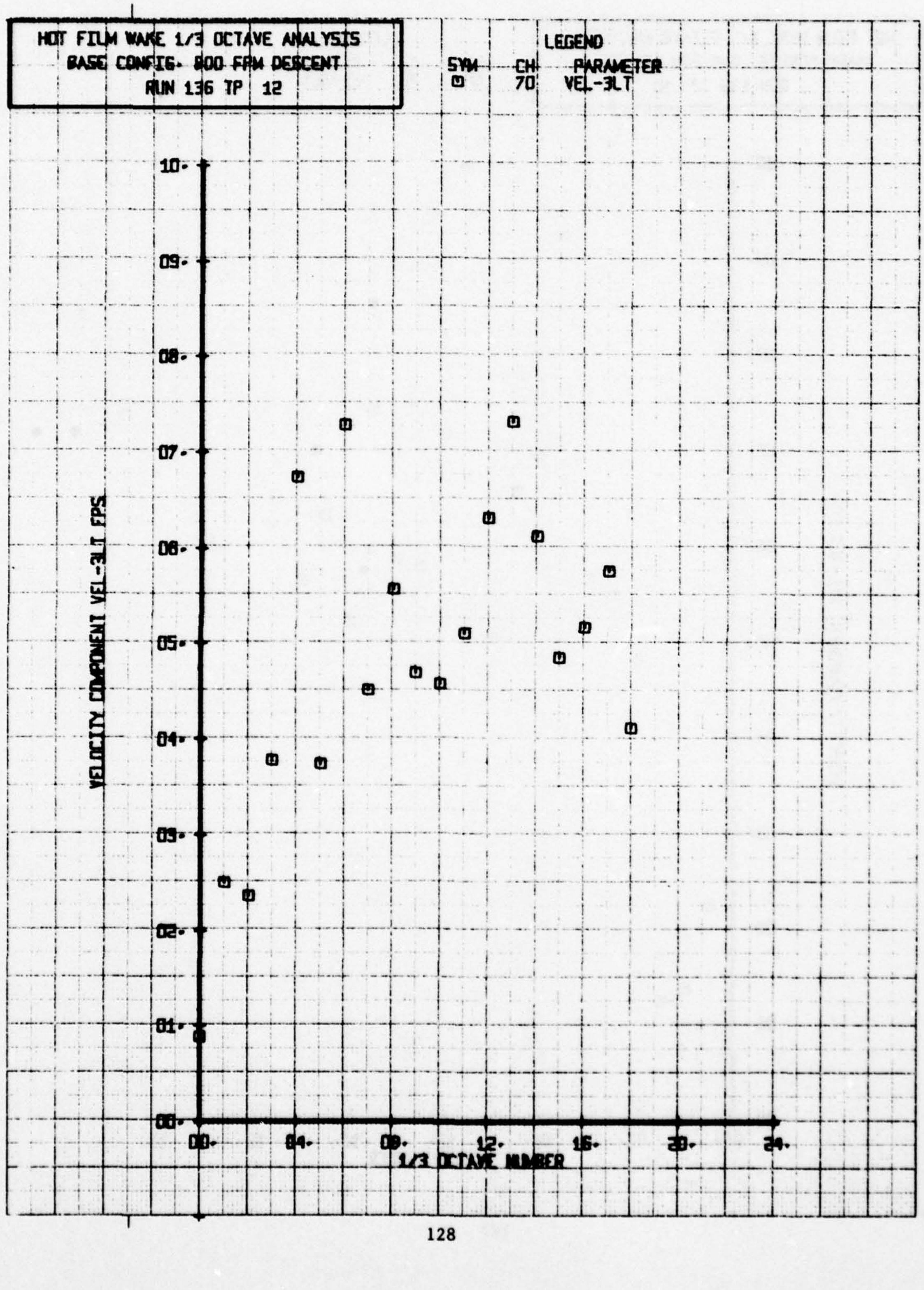
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
BASE CONFIG- 800 FPM DESCENT
RUN 136 TP 12
LEGEND
SYM CH PARAMETER
70 VEL-3LT
VELOCITY COMPONENT VEL-3LT FPS
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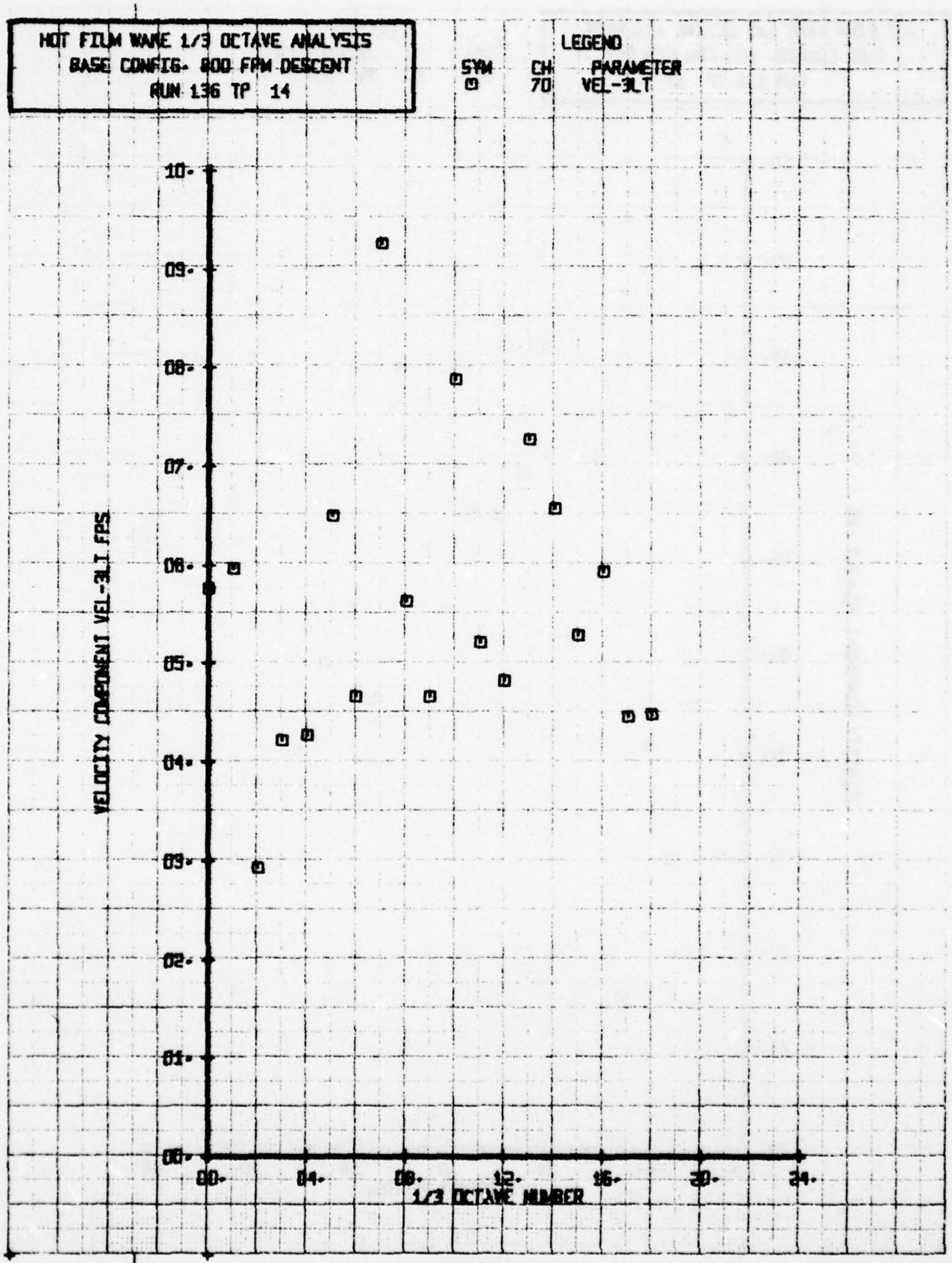
1/3 OCTAVE NUMBER



HOT FILM WAKE 1/3 OCTAVE ANALYSIS
BASE CONFIG. 800 FPM DESCENT
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LEGEND
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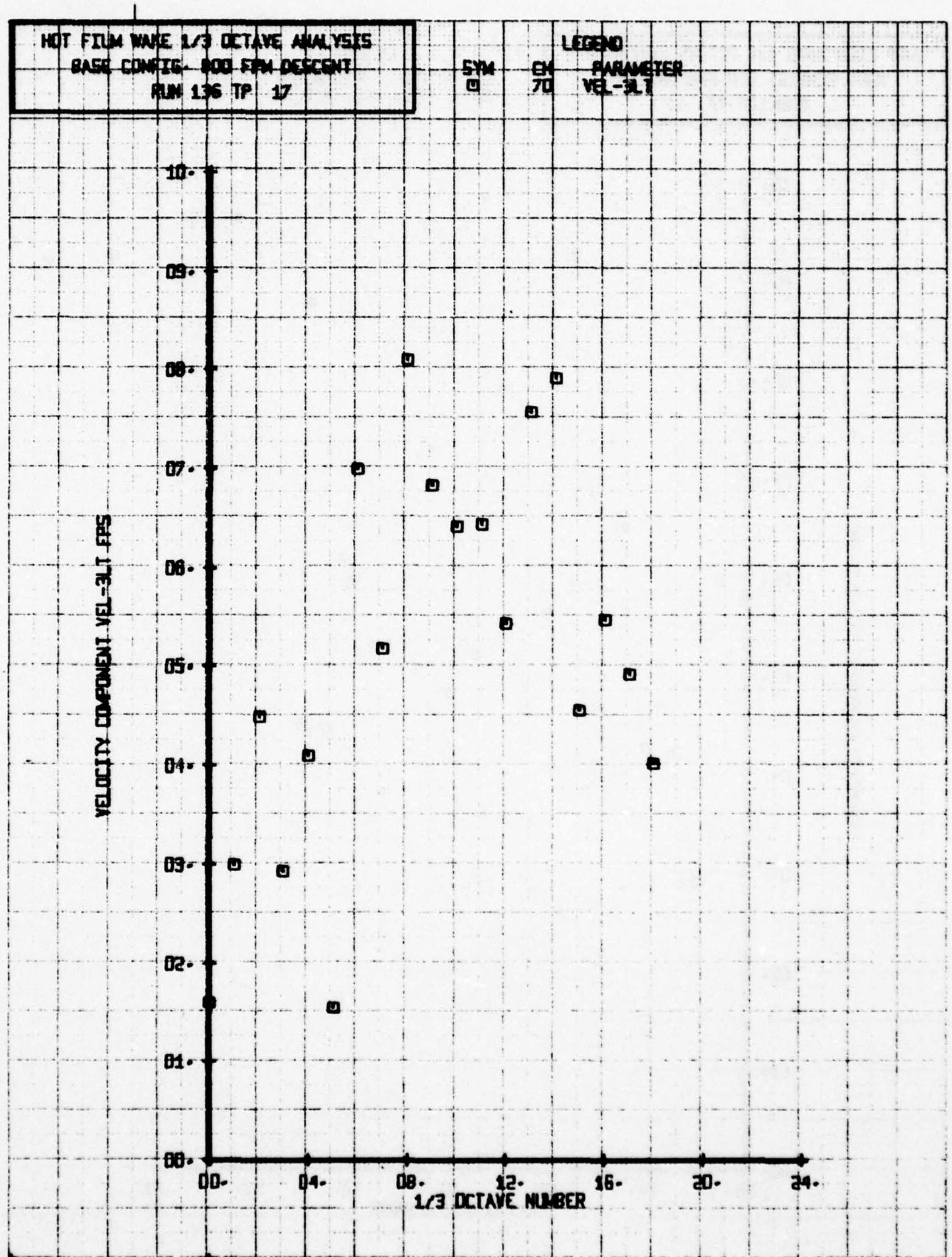
VELOCITY COMPONENT VEL-3LT FPS
1/3 OCTAVE NUMBER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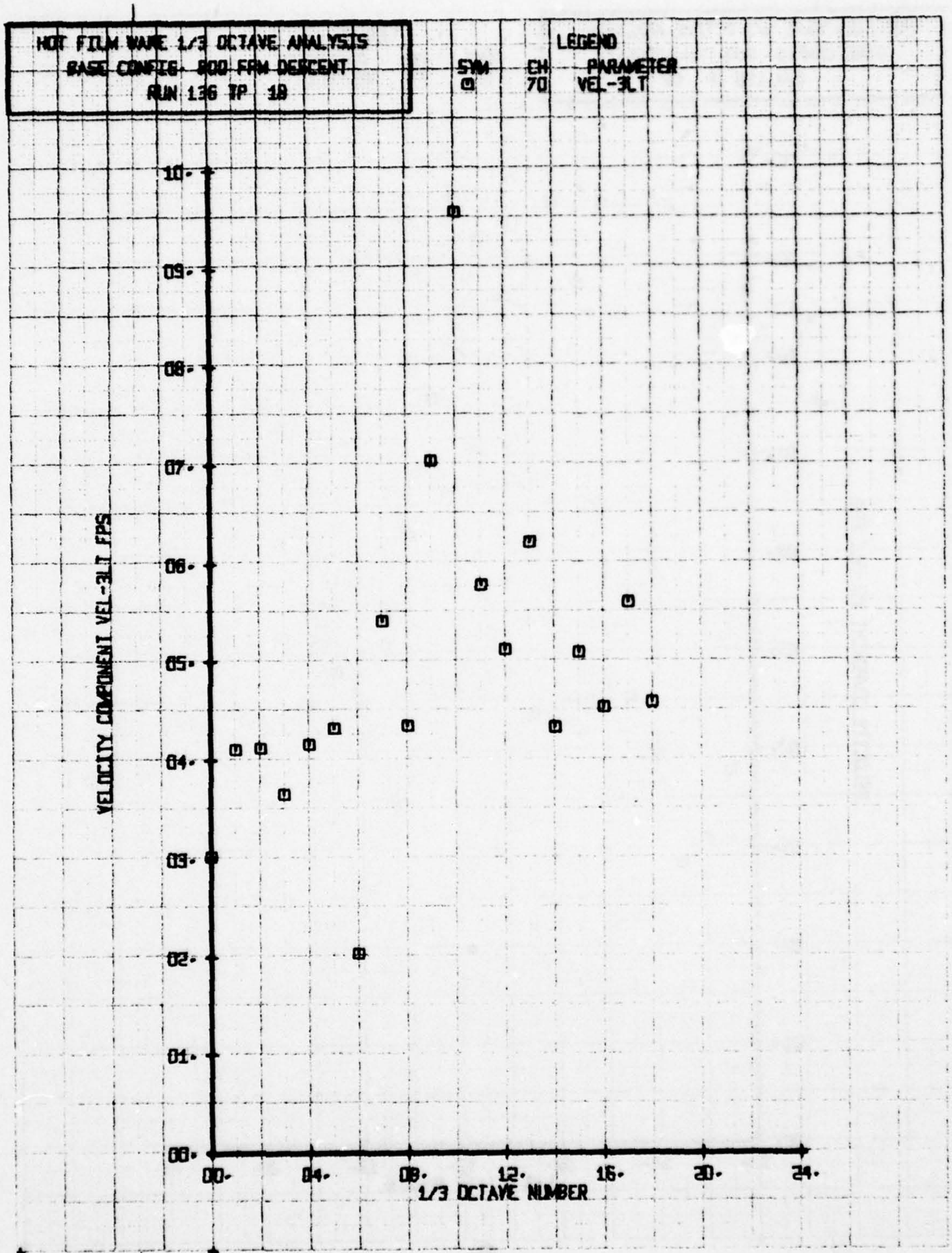
VELOCITY COMPONENT VEL-3LT FPS
1/3 OCTAVE NUMBER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BASE CONFIG. 800 FPM DESCENT
RUN 136 TP 18
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VELOCITY COMPONENT VEL-3LT FPS
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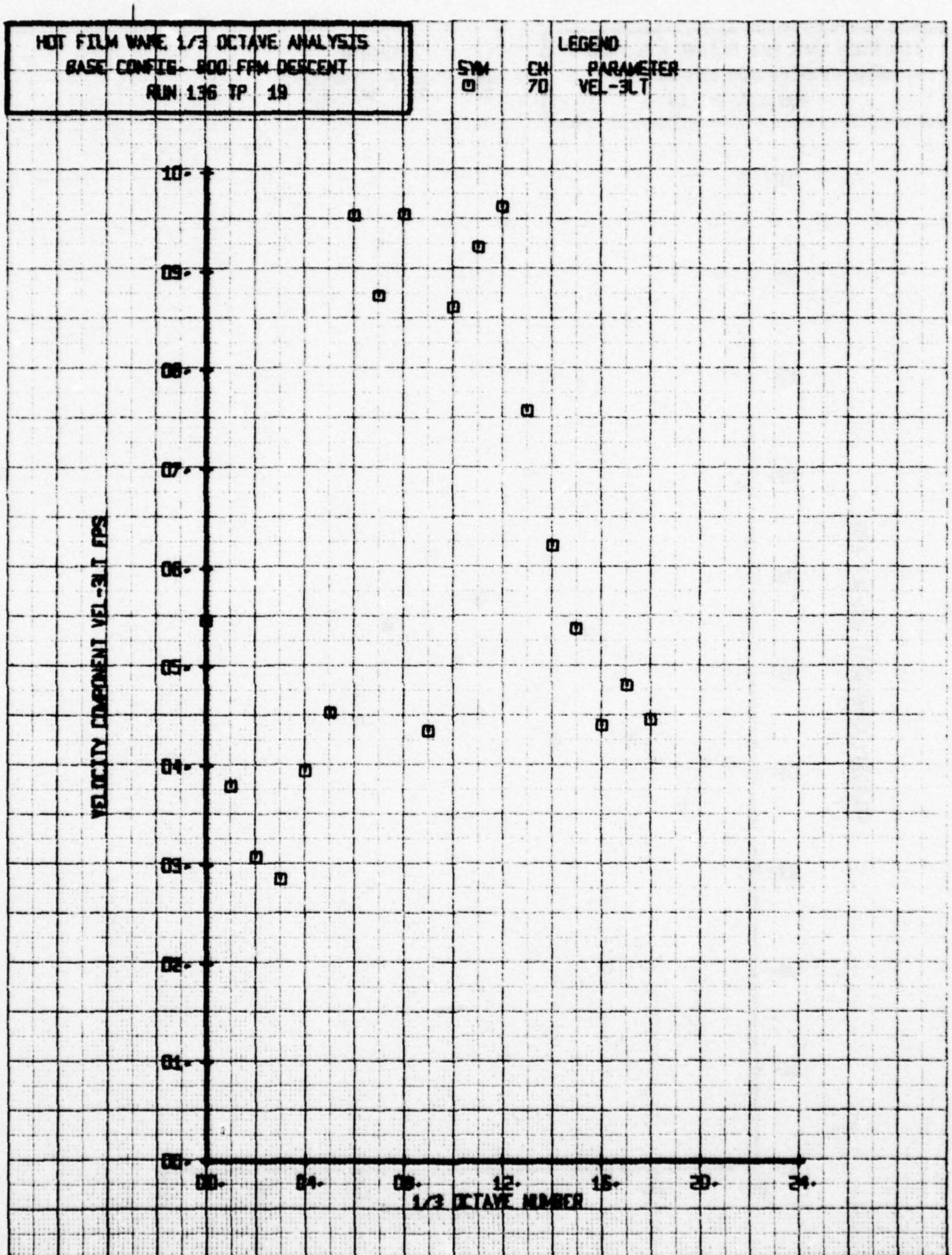
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
BASE CONFIG- 800 FPM DESCENT
RUN 136 TP 19
LEGEND
SYM CH PARAMETER
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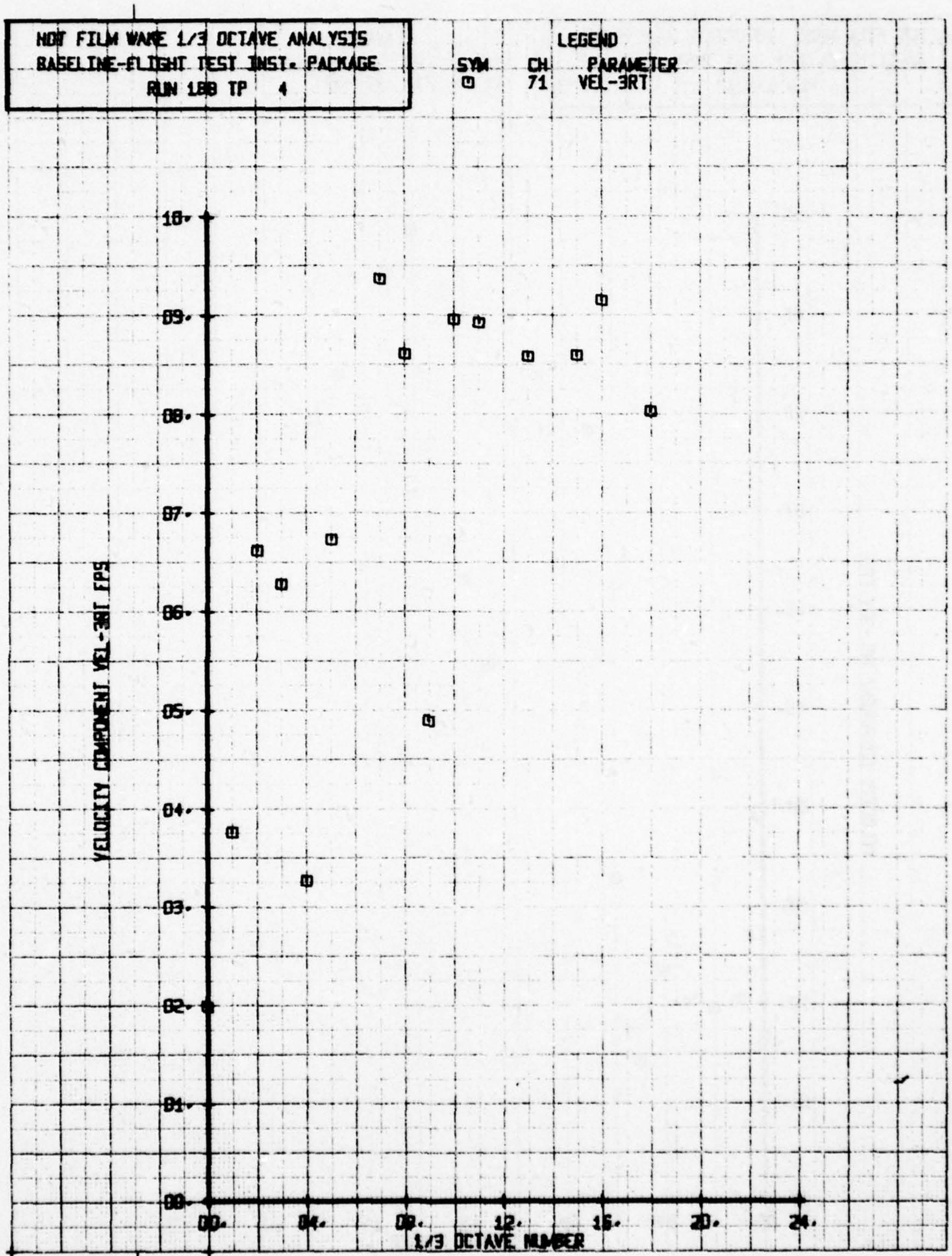
1/3 OCTAVE NUMBER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RUN 188 TP 4
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
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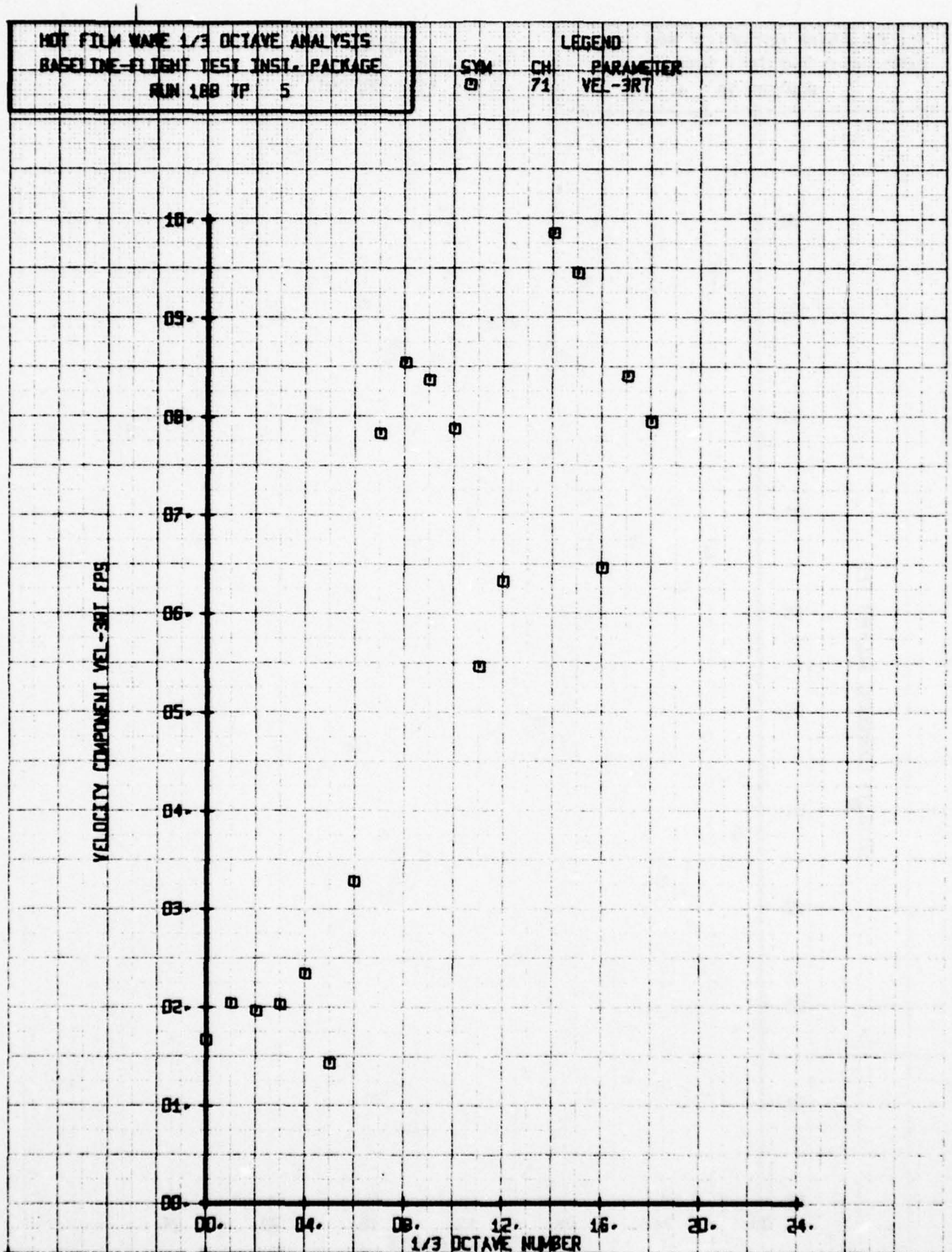
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RUN 188 TP 5
LEGEND
SYM CH PARAMETER
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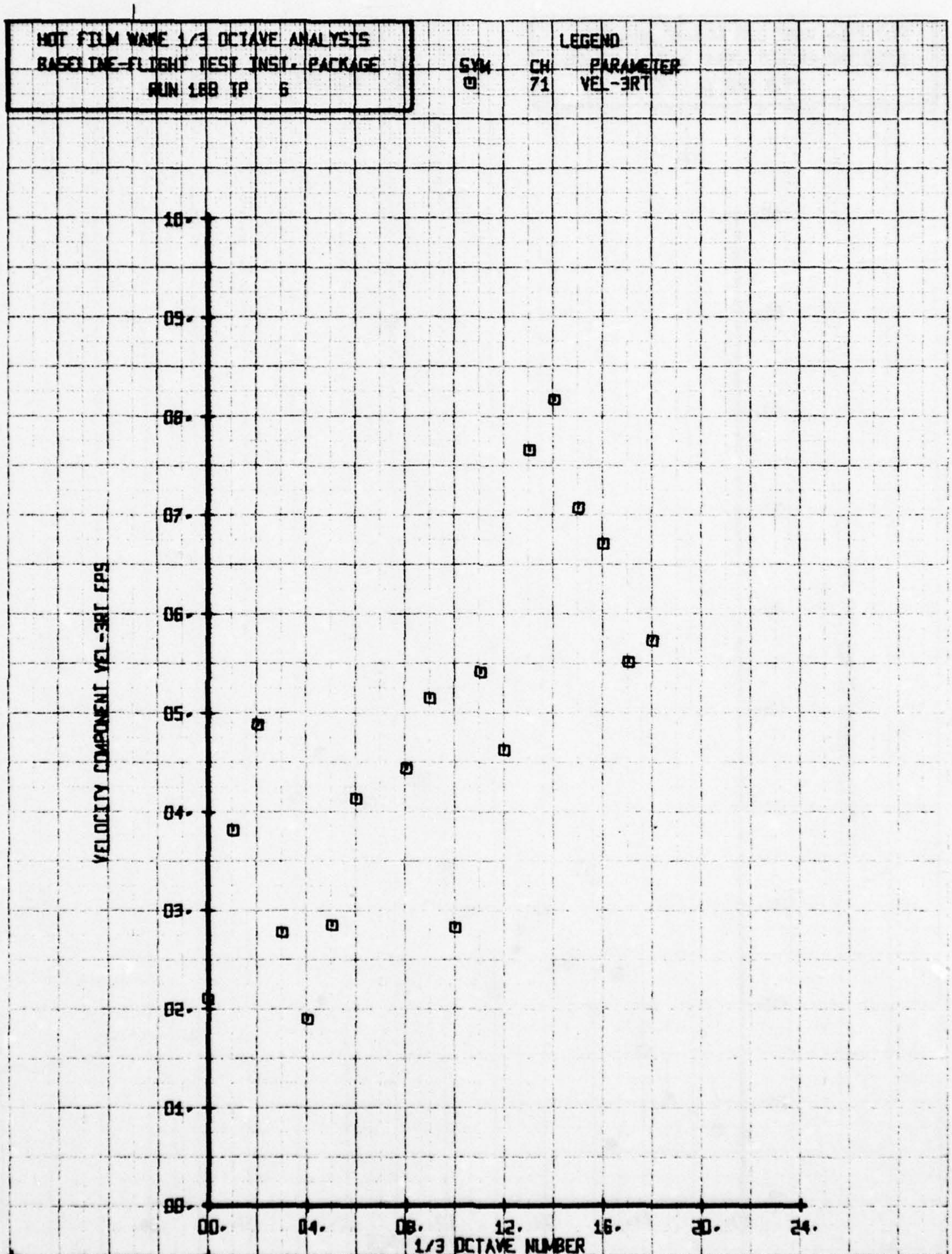
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
BASELINE-FLIGHT TEST INST. PACKAGE
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LEGEND
SYM CH PARAMETER
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VELOCITY COMPONENT VEL-3RT FPS
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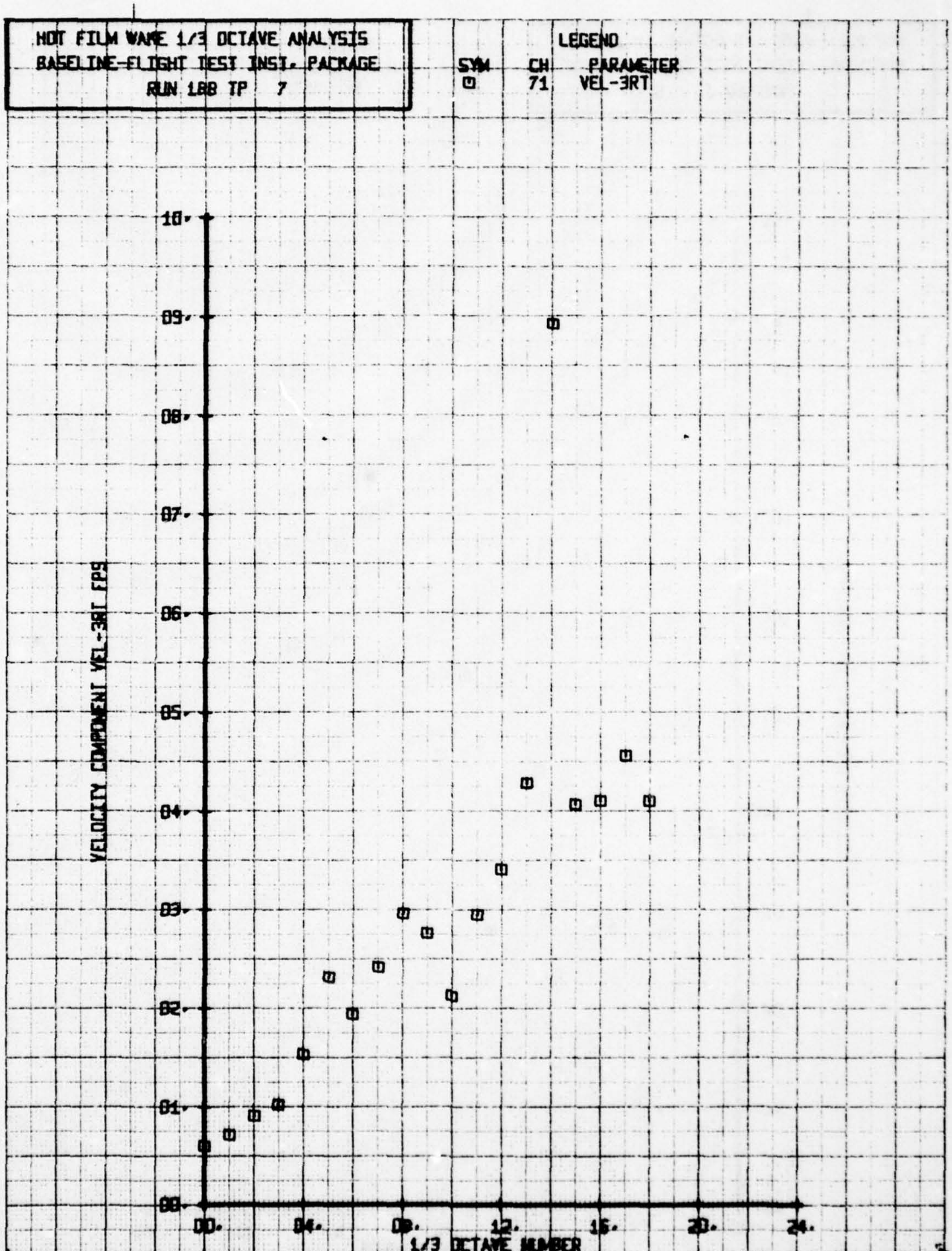
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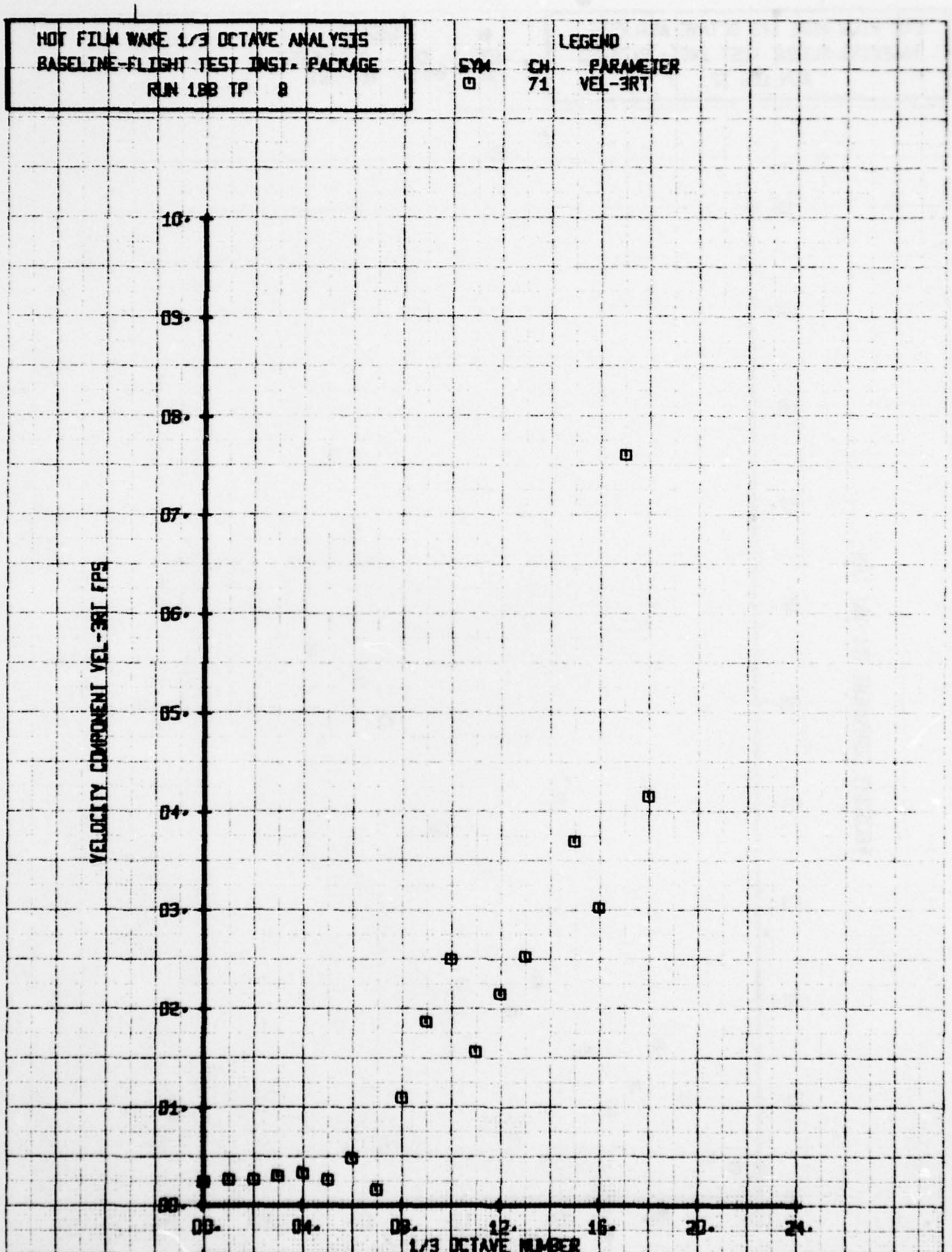

HOT FILM WAKE 1/3 OCTAVE ANALYSIS
BASELINE-FLIGHT TEST INST. PACKAGE
RUN 188 TP 8
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SYM CH PARAMETER
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VELOCITY COMPONENT VEL-3RT FPS
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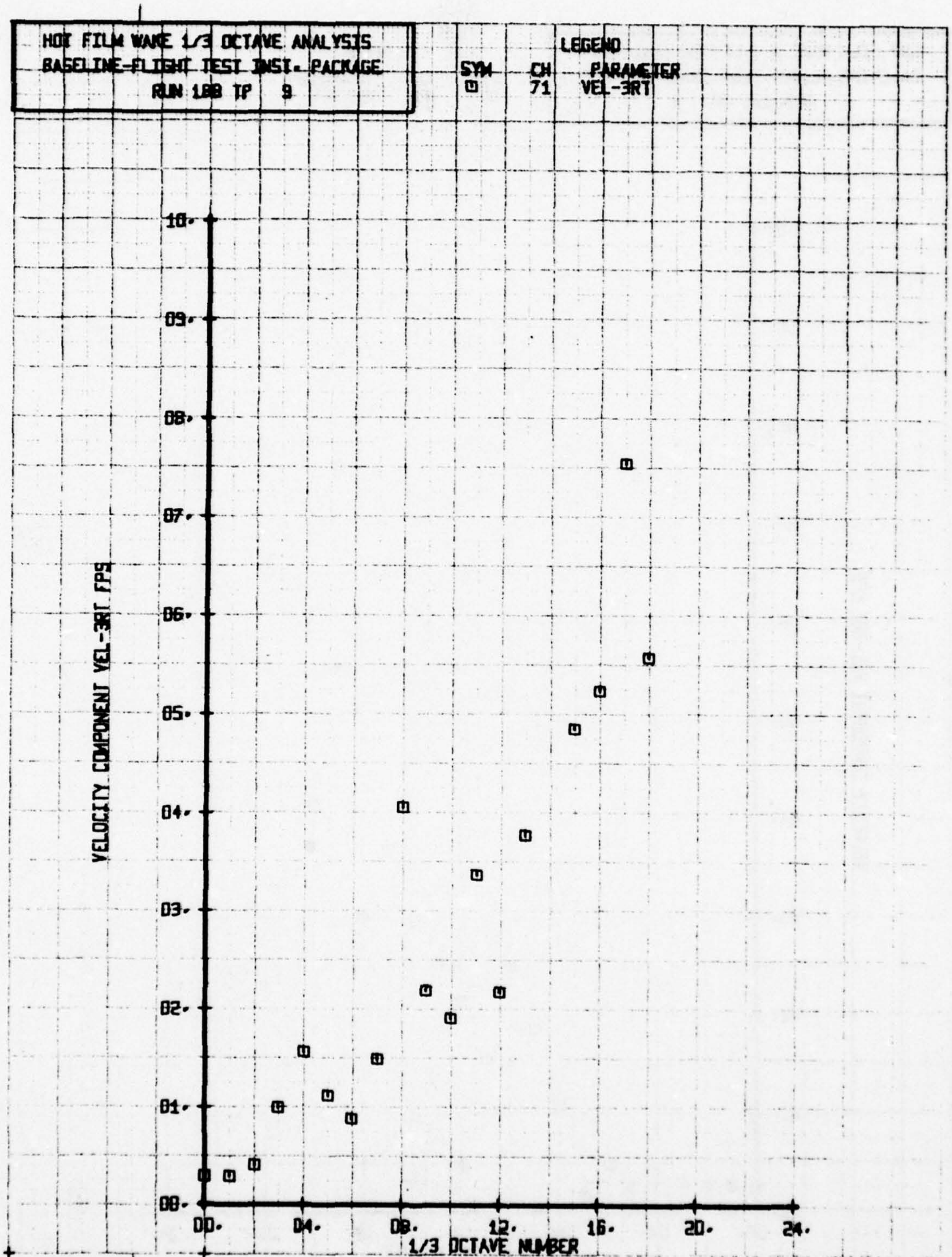
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BASELINE-FLIGHT TEST INST. PACKAGE
RUN 188 TP 9
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VELOCITY COMPONENT VEL-3RT FPS
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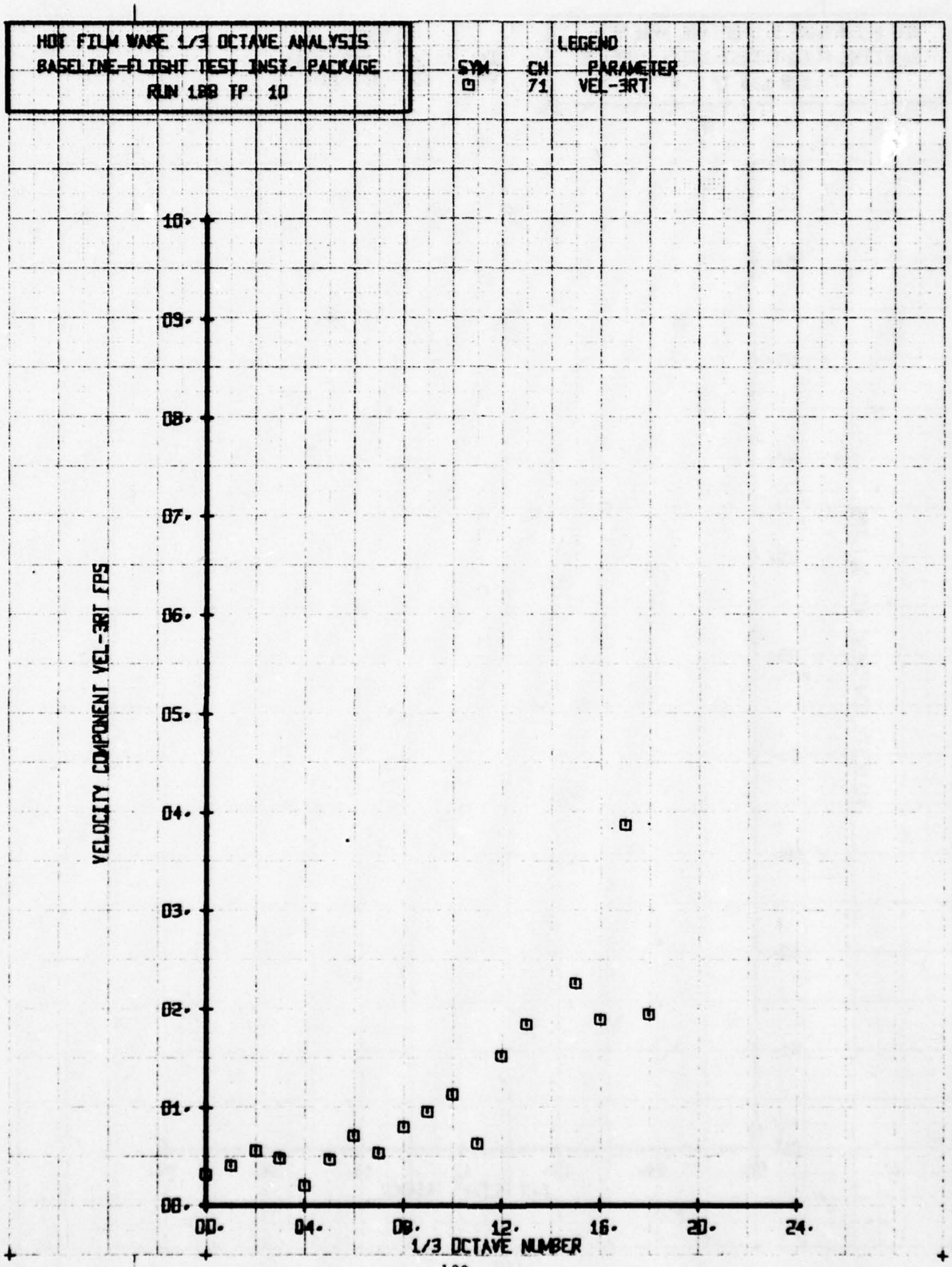
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BASELINE-FLIGHT TEST INST. PACKAGE
RUN 188 TP 10
LEGEND
SYM CH PARAMETER
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VELOCITY COMPONENT VEL-3RT FPS
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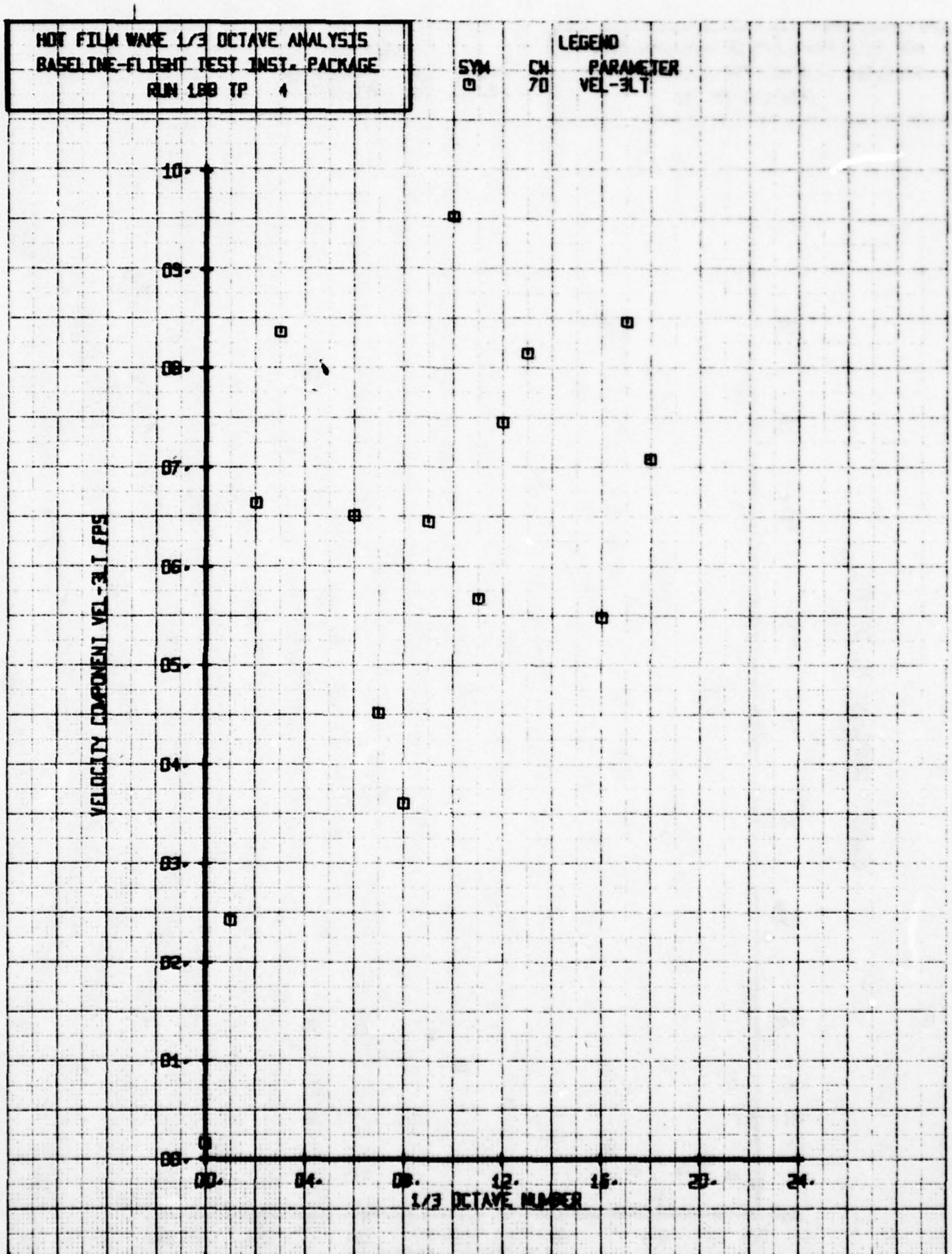
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BASELINE-FLIGHT TEST INST. PACKAGE
RUN 188 TP 4
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SYM CH PARAMETER
70 VEL-3LT
VELOCITY COMPONENT VEL-3LT FPS
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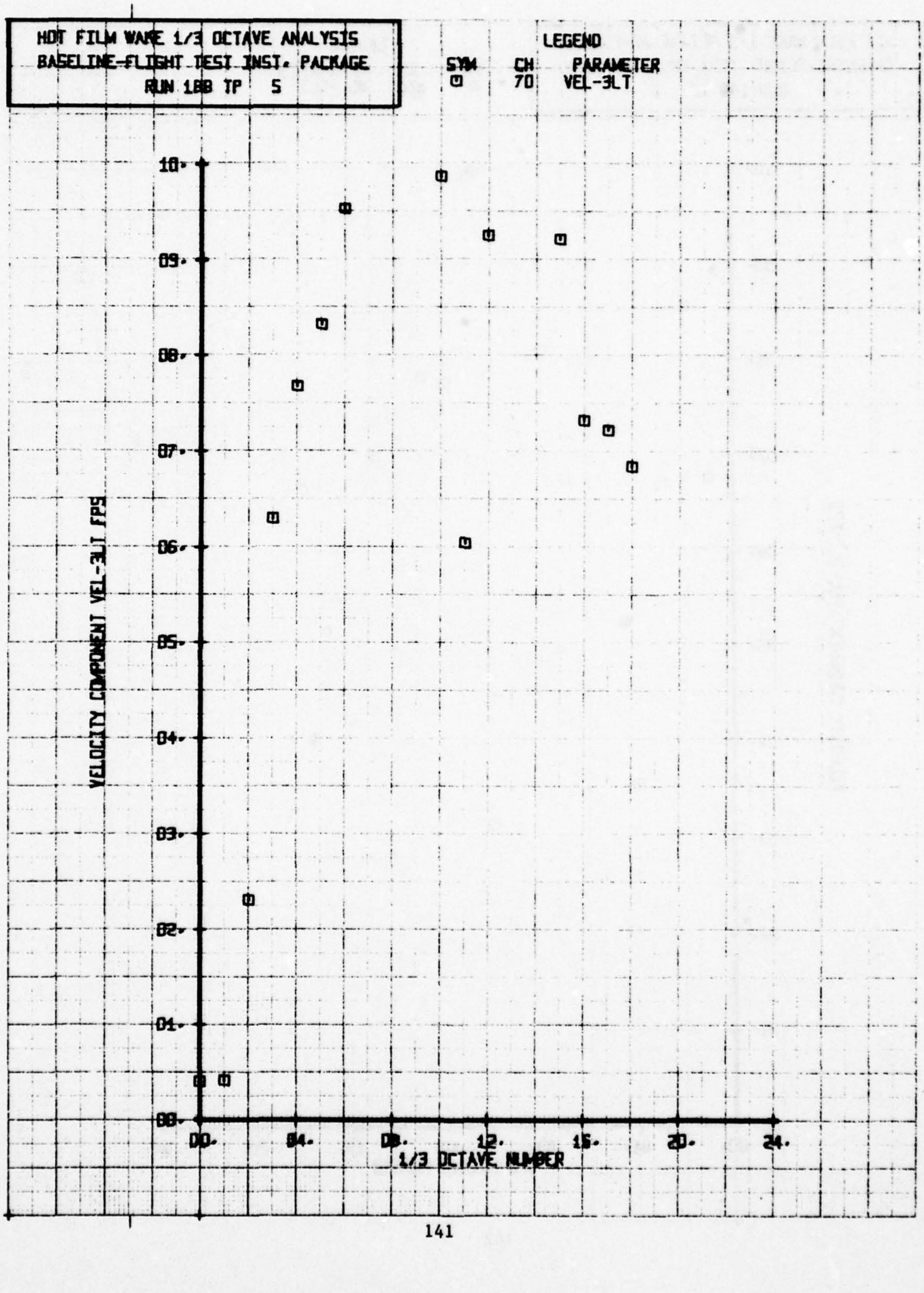

HOT FILM WAKE 1/3 OCTAVE ANALYSIS
BASELINE-FLIGHT TEST INST. PACKAGE
RUN 188 TP 5
LEGEND
SYM CH PARAMETER
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VELOCITY COMPONENT VEL-3LT FPS
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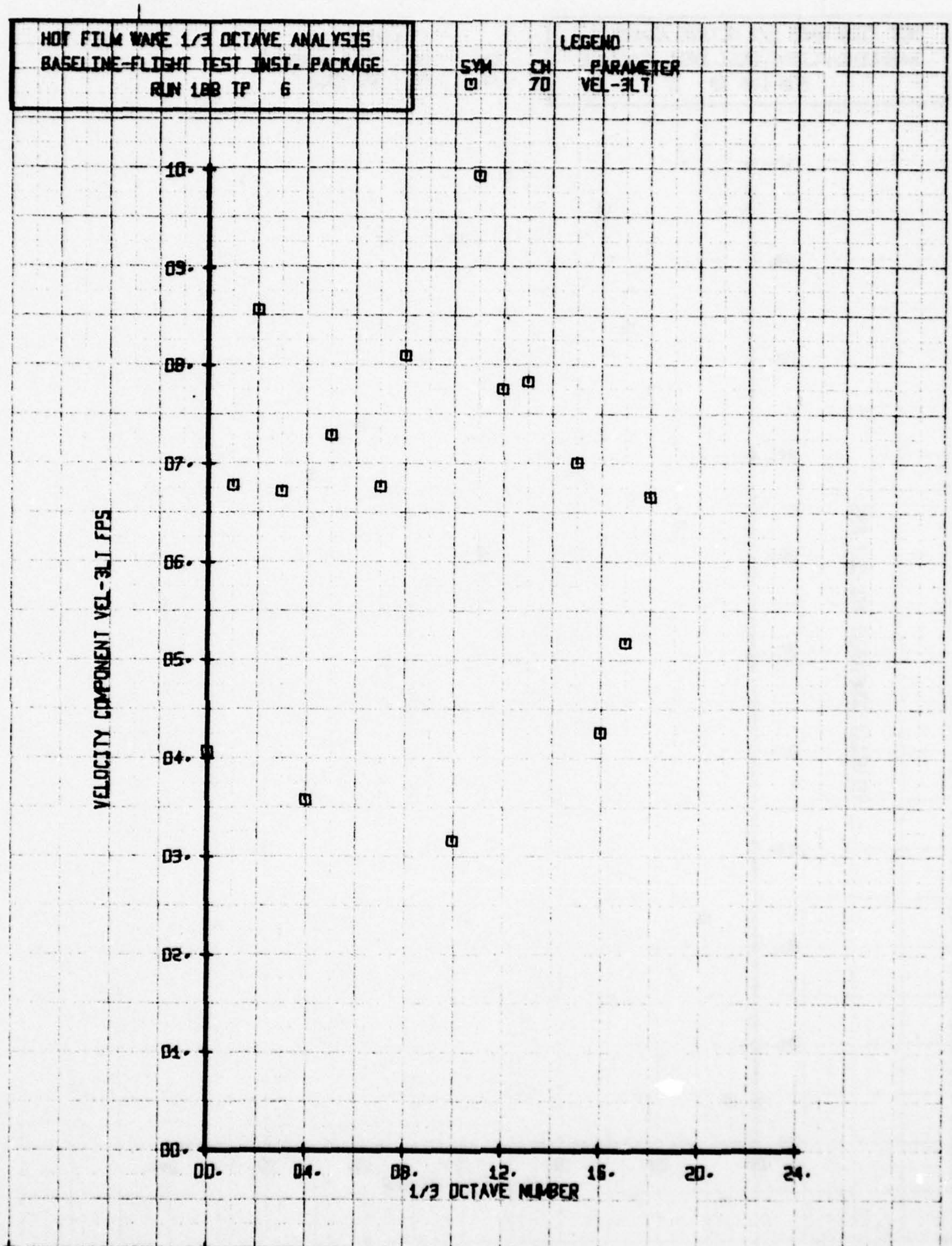
1/3 OCTAVE NUMBER



HOT FILM WAKE 1/3 OCTAVE ANALYSIS
BASELINE-FLIGHT TEST INST. PACKAGE
RUN 188 TP 6
LEGEND
SYM CH PARAMETER
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VELOCITY COMPONENT VEL-3LT FPS
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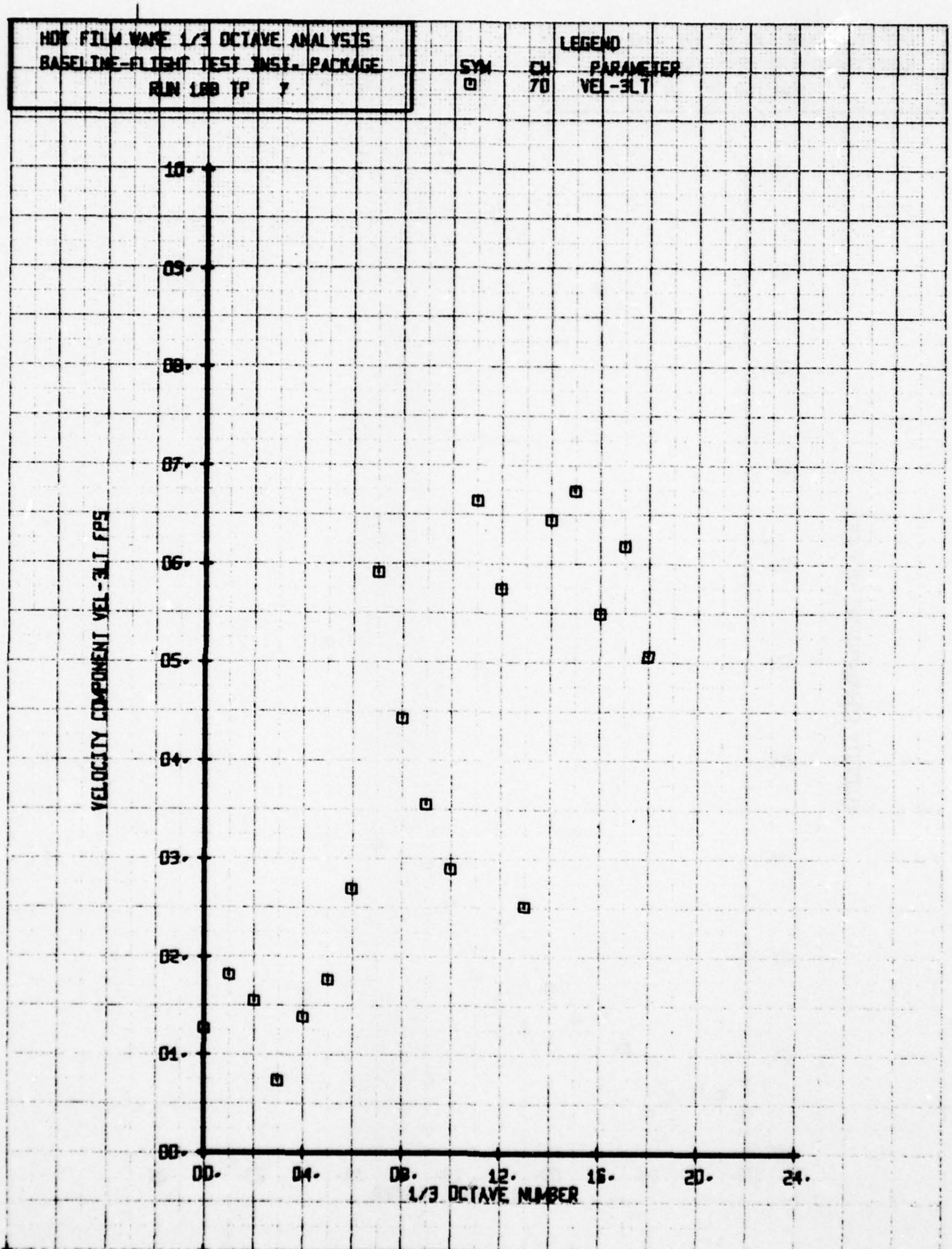
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
BASELINE-FLIGHT TEST INST. PACKAGE
RUN 188 TP 7
LEGEND
SYM CH PARAMETER
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VELOCITY COMPONENT VEL-3LT FPS
1/3 OCTAVE NUMBER
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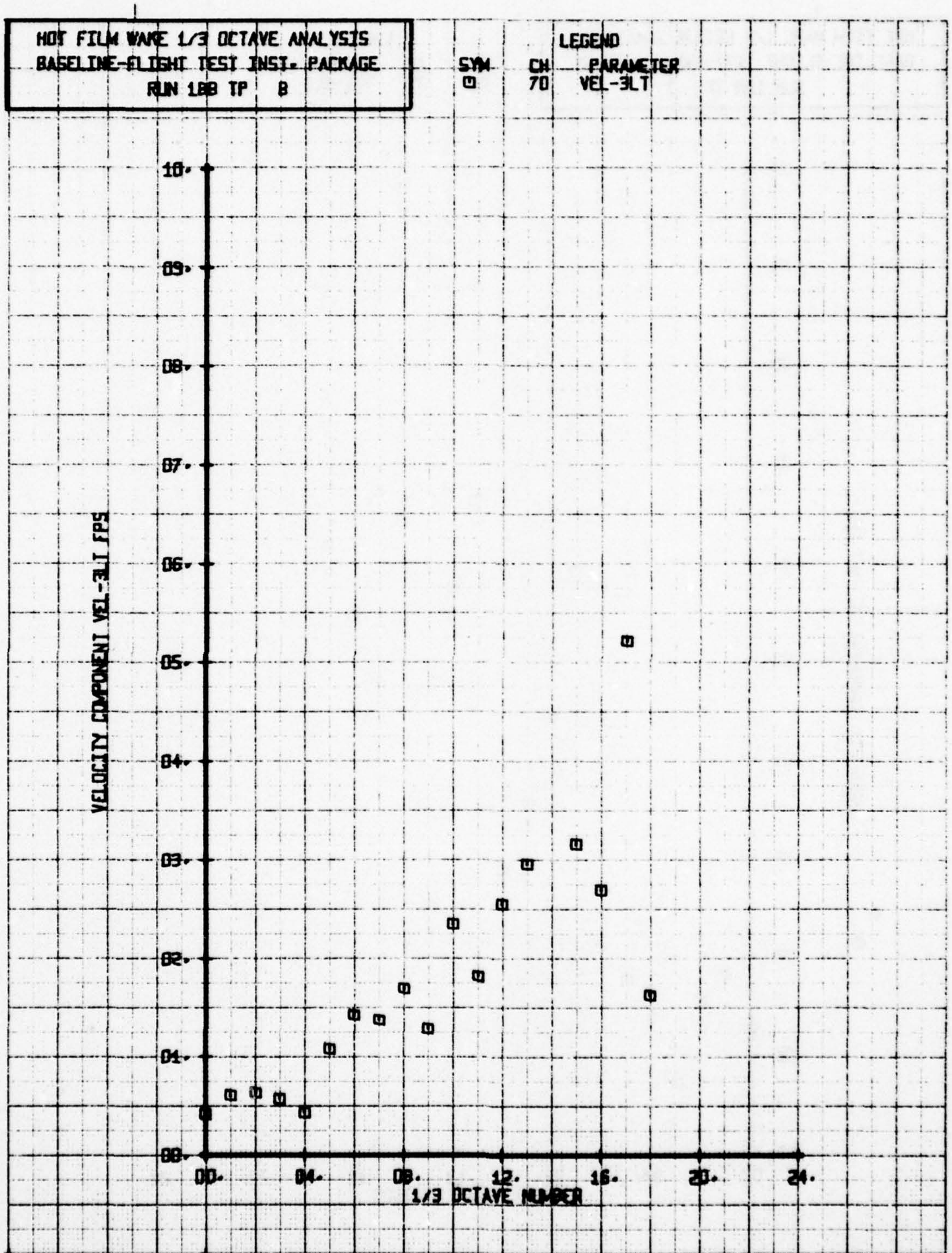
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
BASELINE-FLIGHT TEST INST. PACKAGE
RUN 188 TP 8
LEGEND
SYM CH PARAMETER
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VELOCITY COMPONENT VEL-3LT FPS
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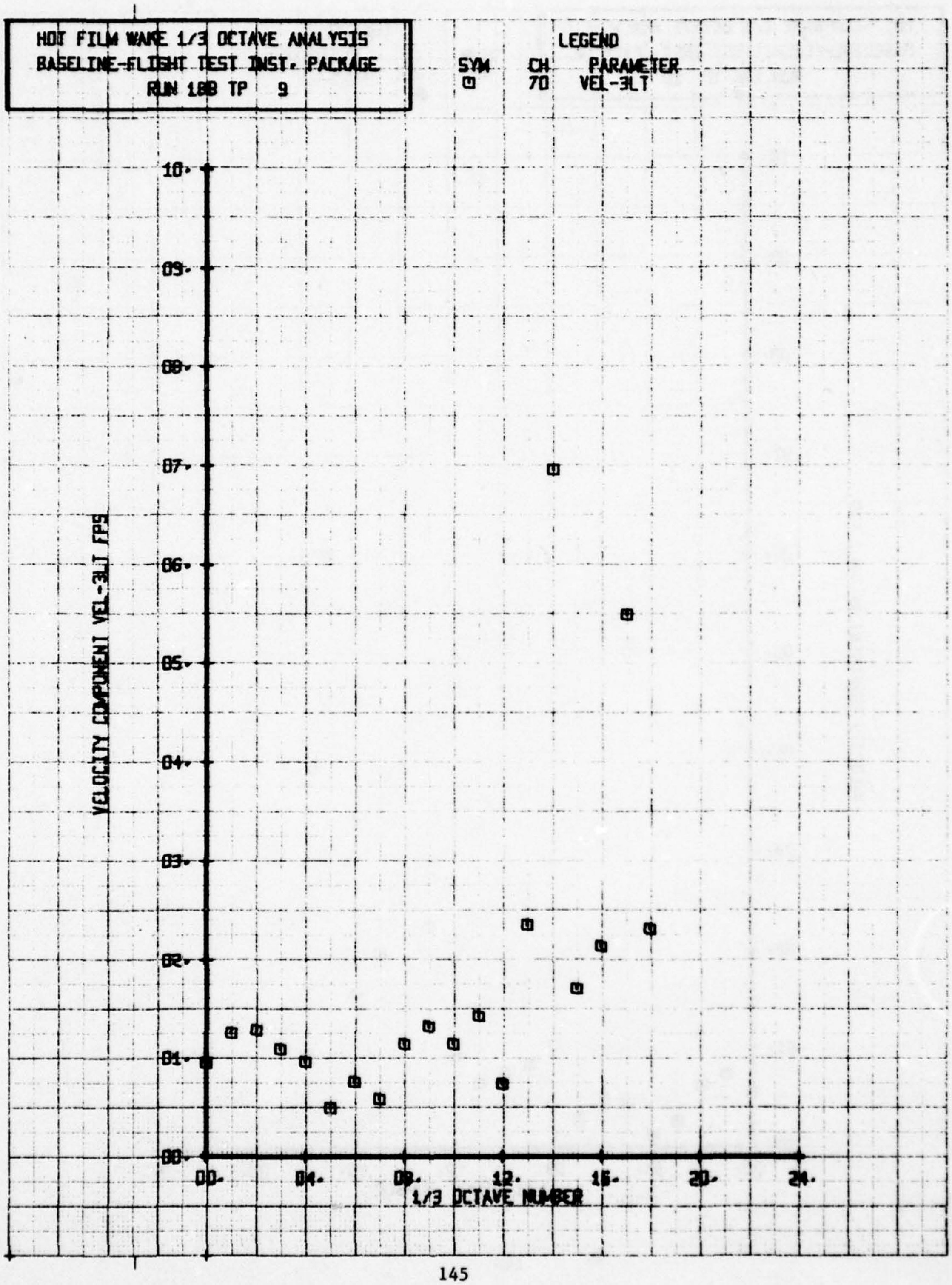
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
BASELINE-FLIGHT TEST INST. PACKAGE
RUN 18B TP 9
LEGEND
SYM CH PARAMETER
70 VEL-3LT
VELOCITY COMPONENT VEL-3LT FPS
1/3 OCTAVE NUMBER
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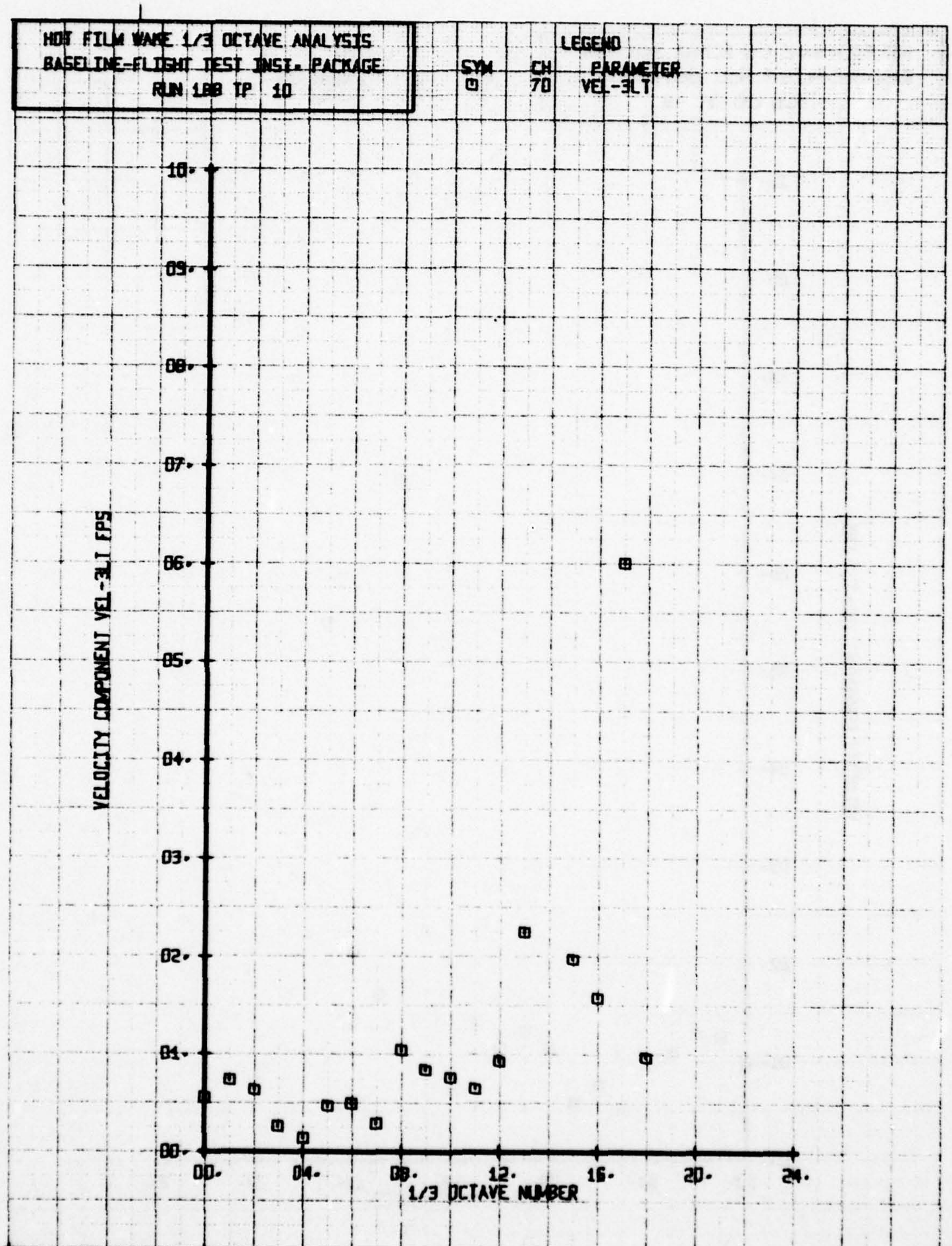
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
BASELINE-FLIGHT TEST INST. PACKAGE
RUN 188 TP 10
LEGEND
SYM CH PARAMETER
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VELOCITY COMPONENT VEL-3LT FPS
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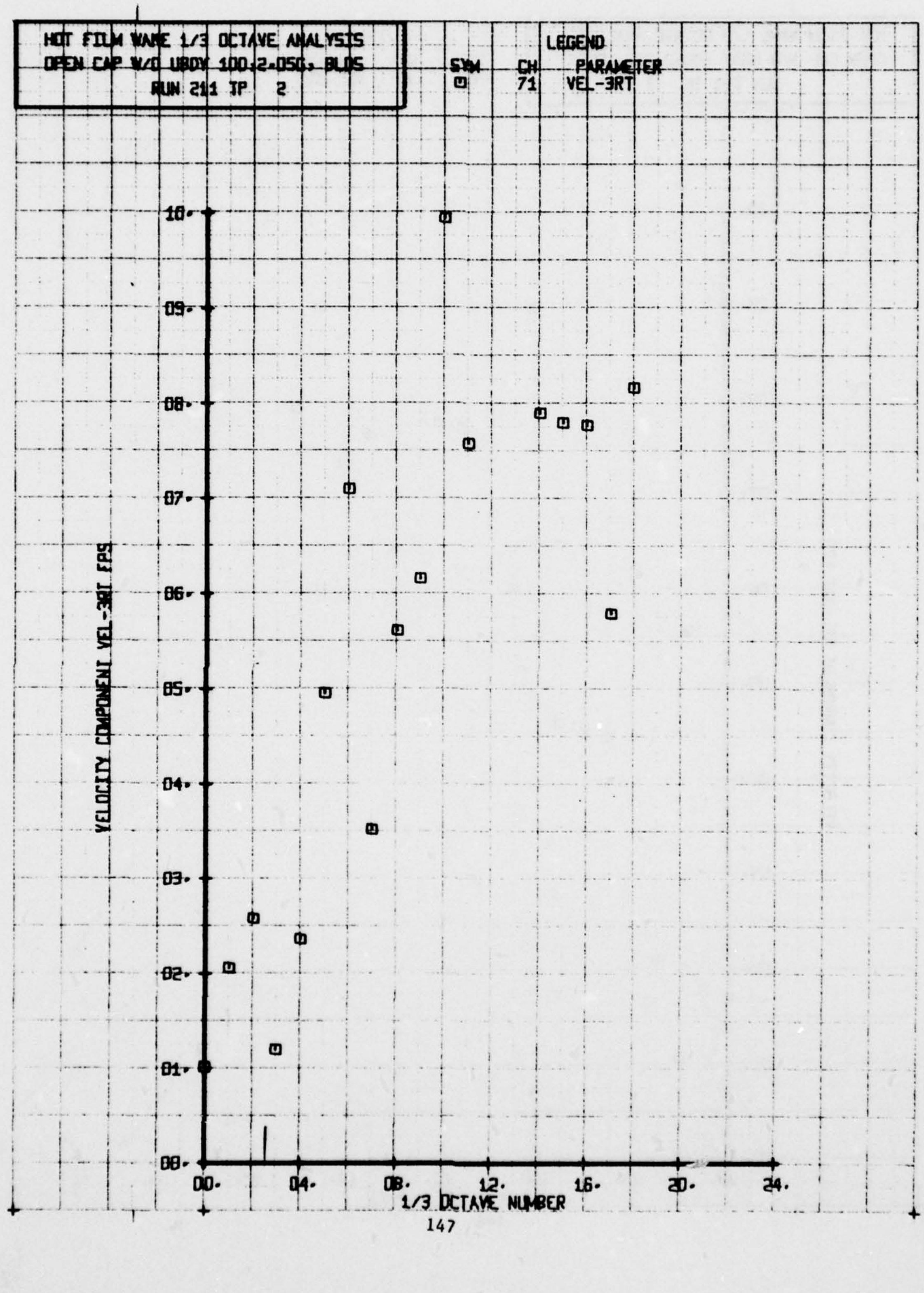
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBDY 100.2-05G, BLDS
RUN 211 TP 2
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
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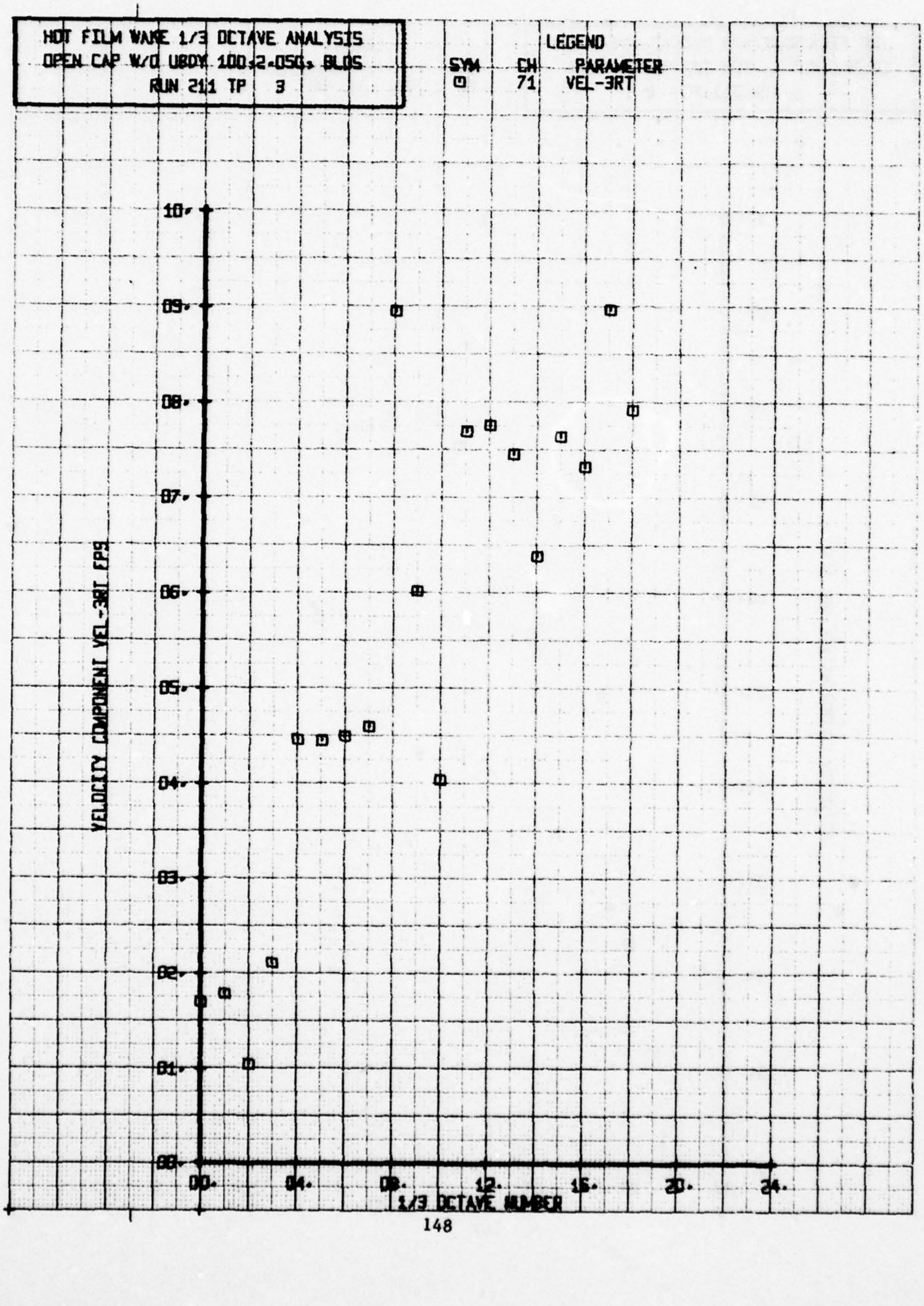
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBDY 100.2-05G. BLDS
RUN 211 TP 3
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
1/3 OCTAVE NUMBER
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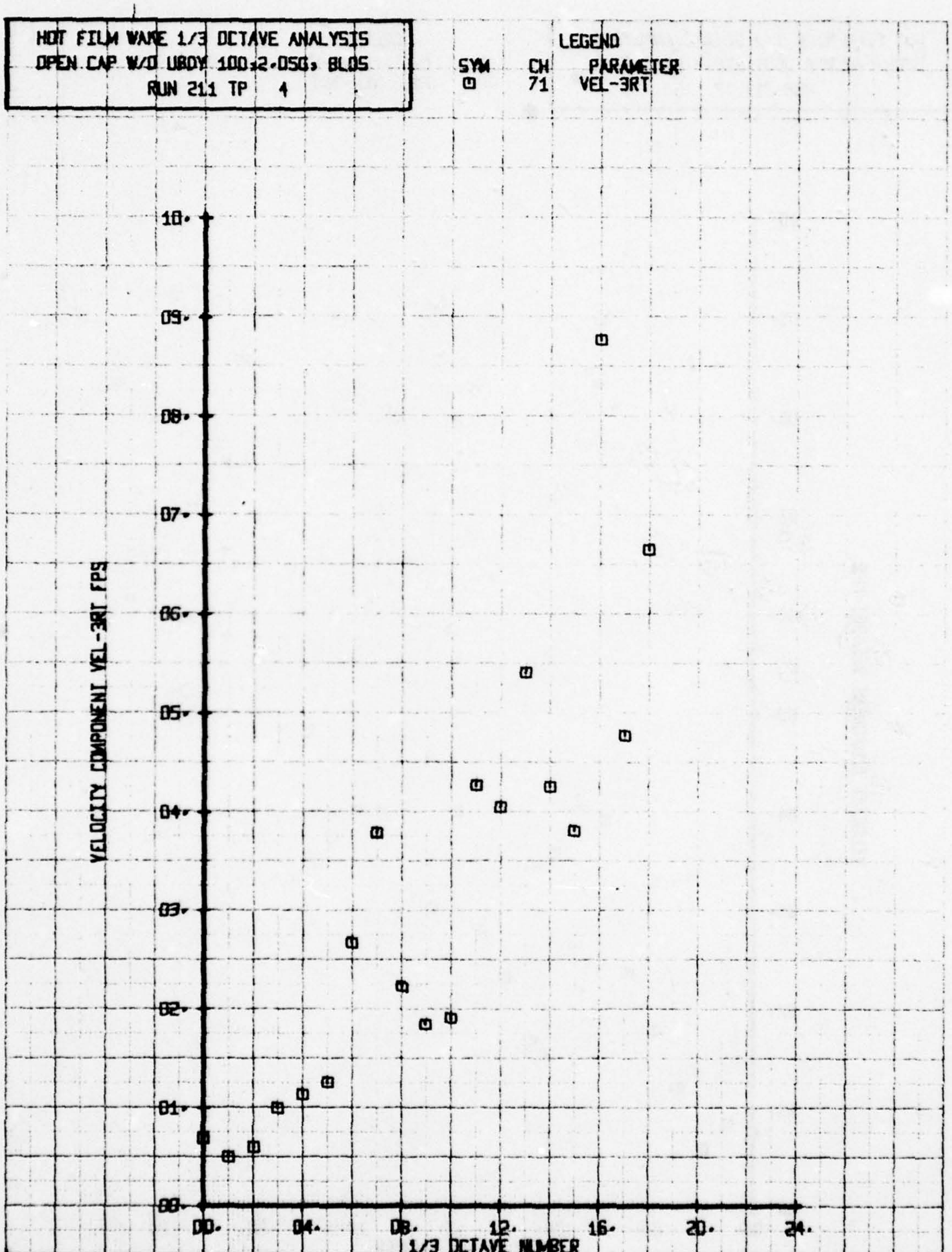
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBOY 100.2.05G, 8LOS
RUN 211 TP 4
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
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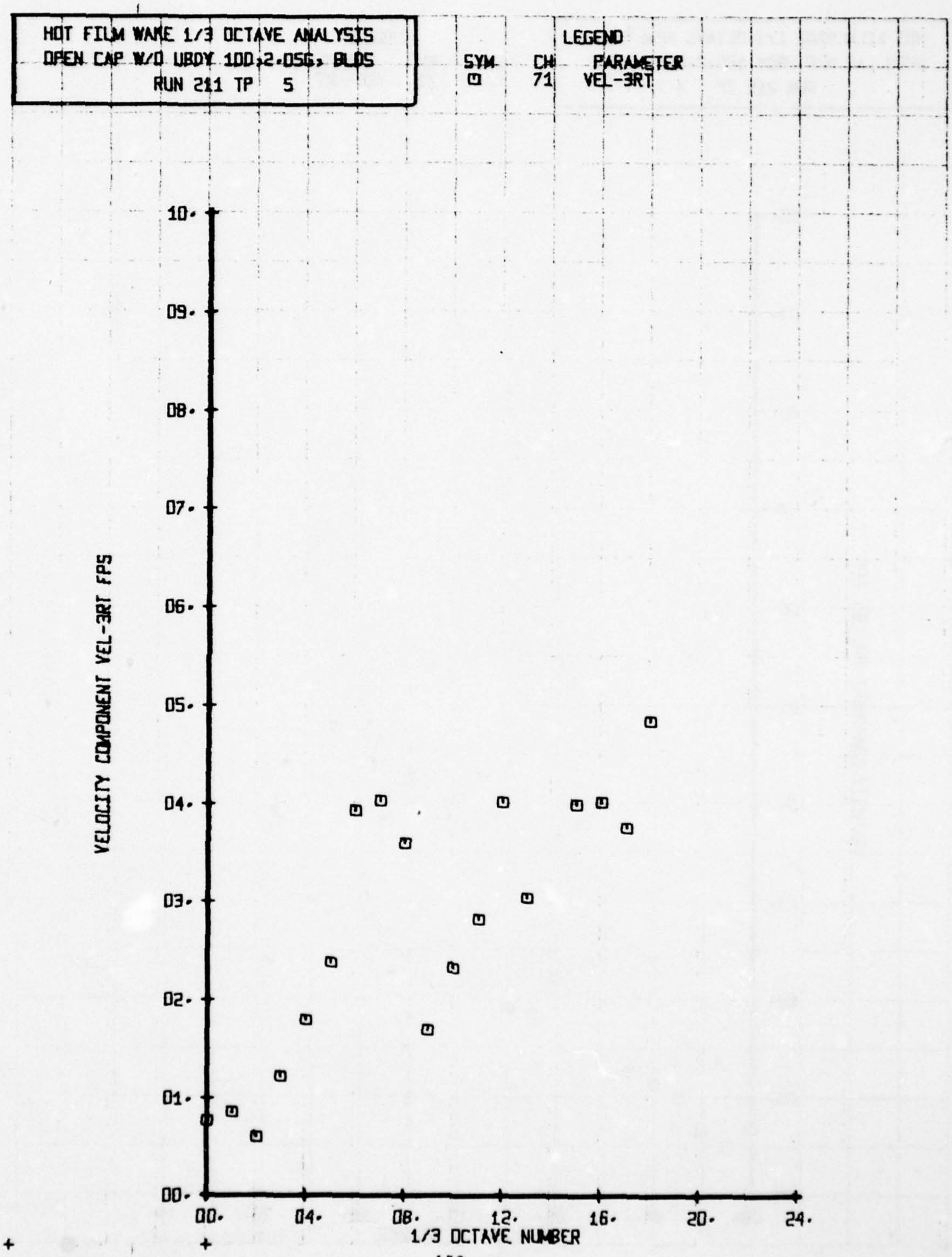

HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBOY 10D,2.0SG, BLDS
RUN 211 TP 5
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
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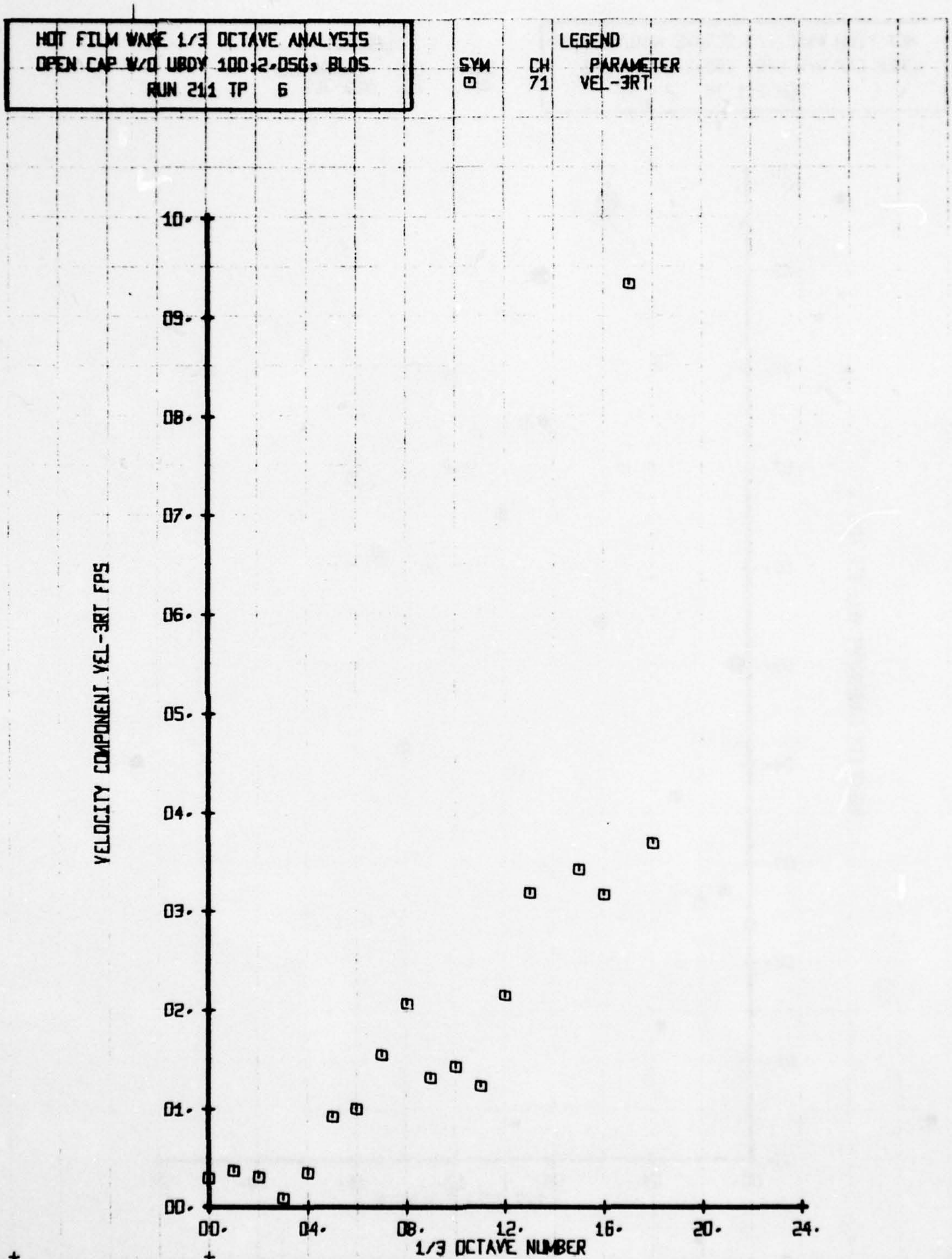
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OPEN CAP W/O UBDY 100:2-DSG: BLDS
RUN 211 TP 6
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
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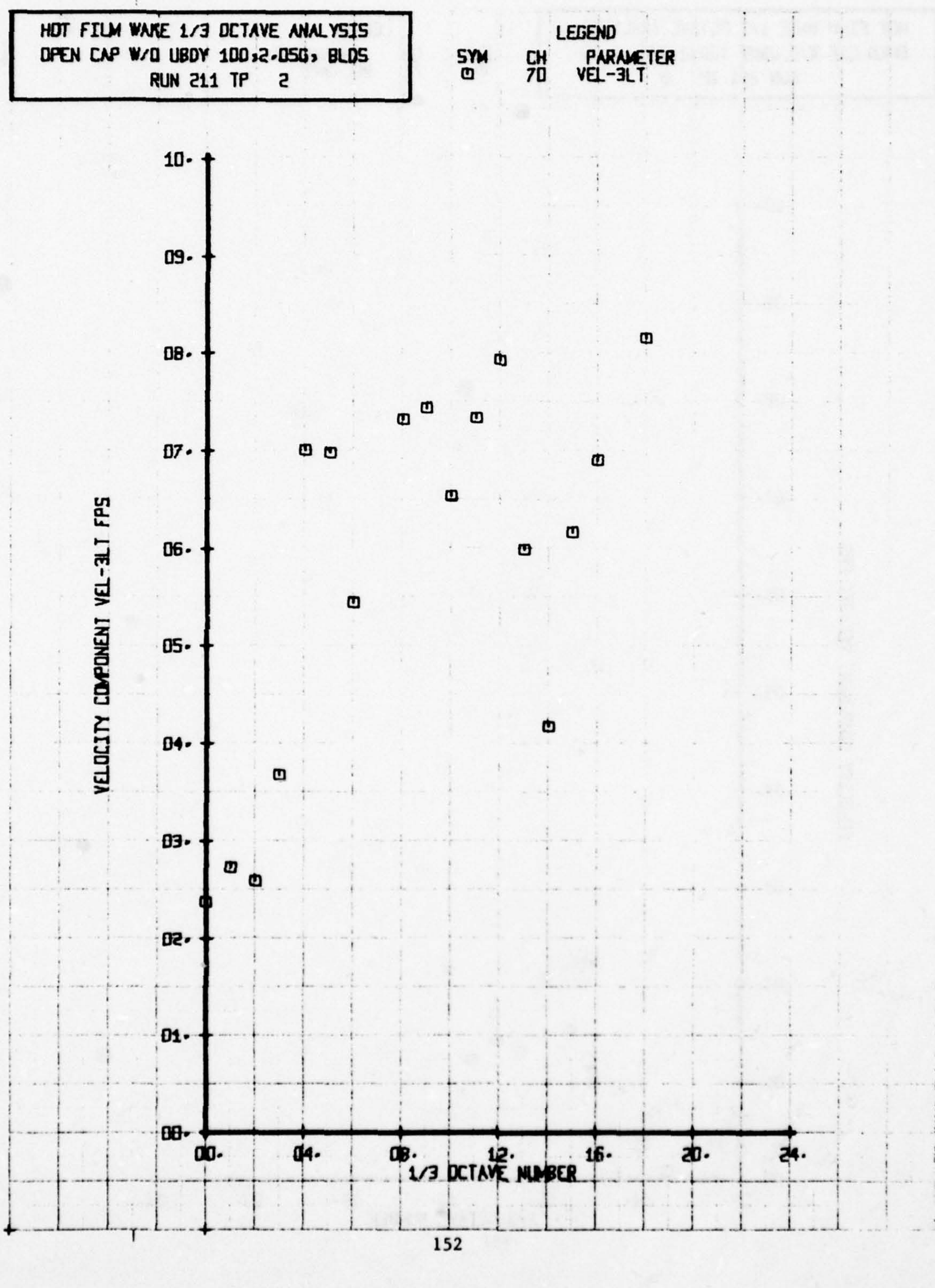
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBDY 100;2.05G, BLDS
RUN 211 TP 2
LEGEND
SYM CH PARAMETER
70 VEL-3LT
VELOCITY COMPONENT VEL-3LT FPS
1/3 OCTAVE NUMBER
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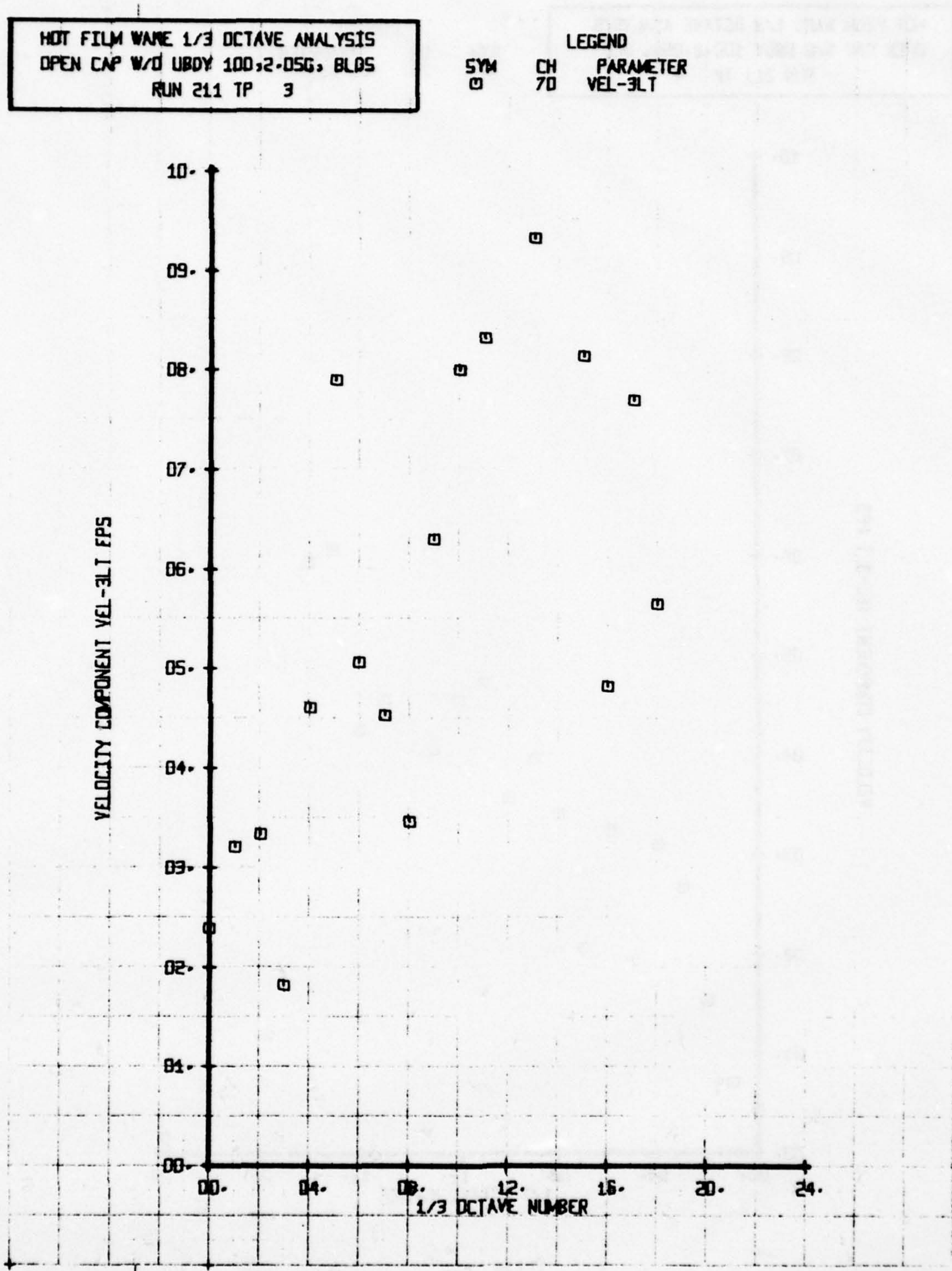
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBOY 100,2.05G, BLDS
RUN 211 TP 3
LEGEND
SYM CH PARAMETER
70 VEL-3LT
VELOCITY COMPONENT VEL-3LT FPS
1/3 OCTAVE NUMBER
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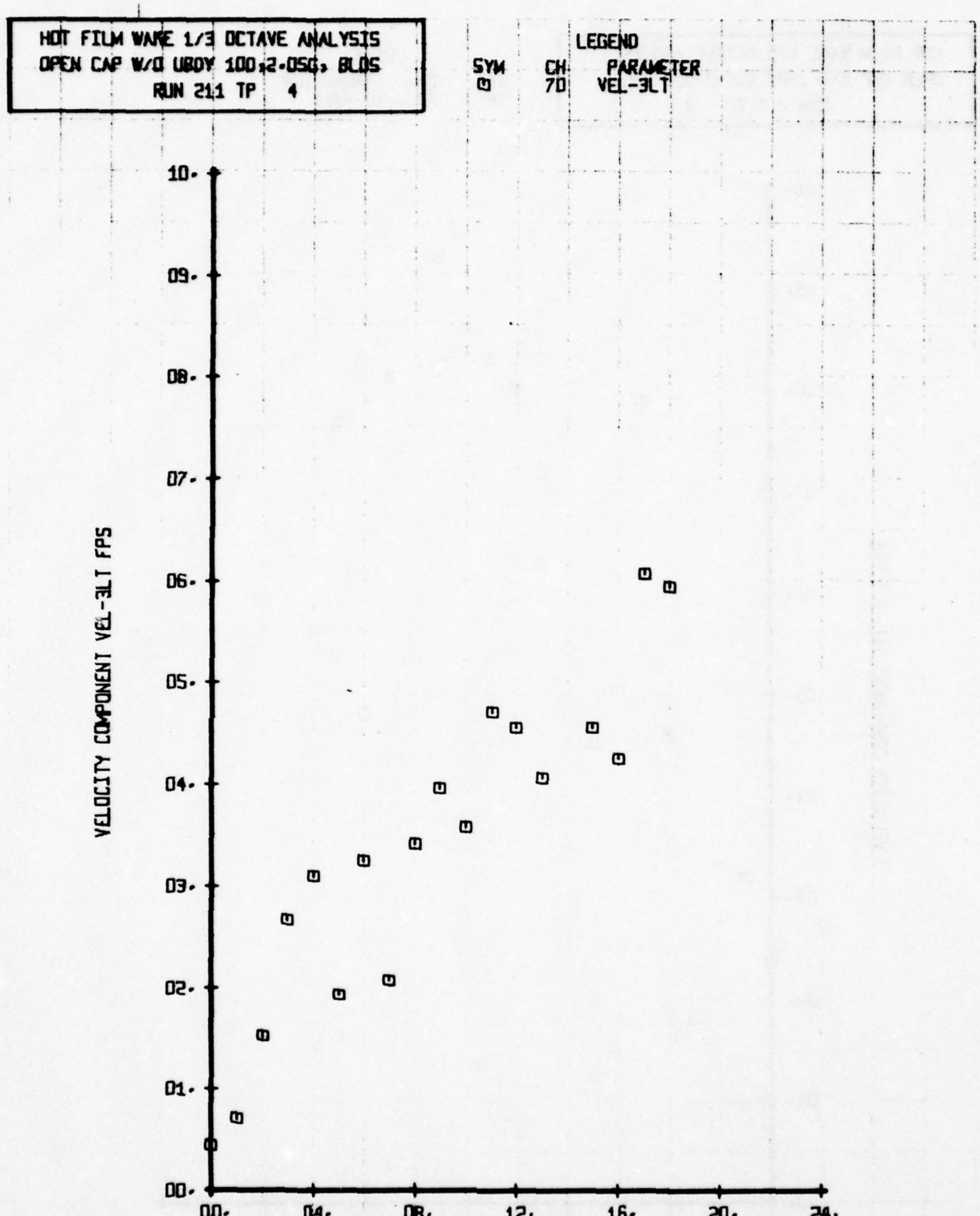
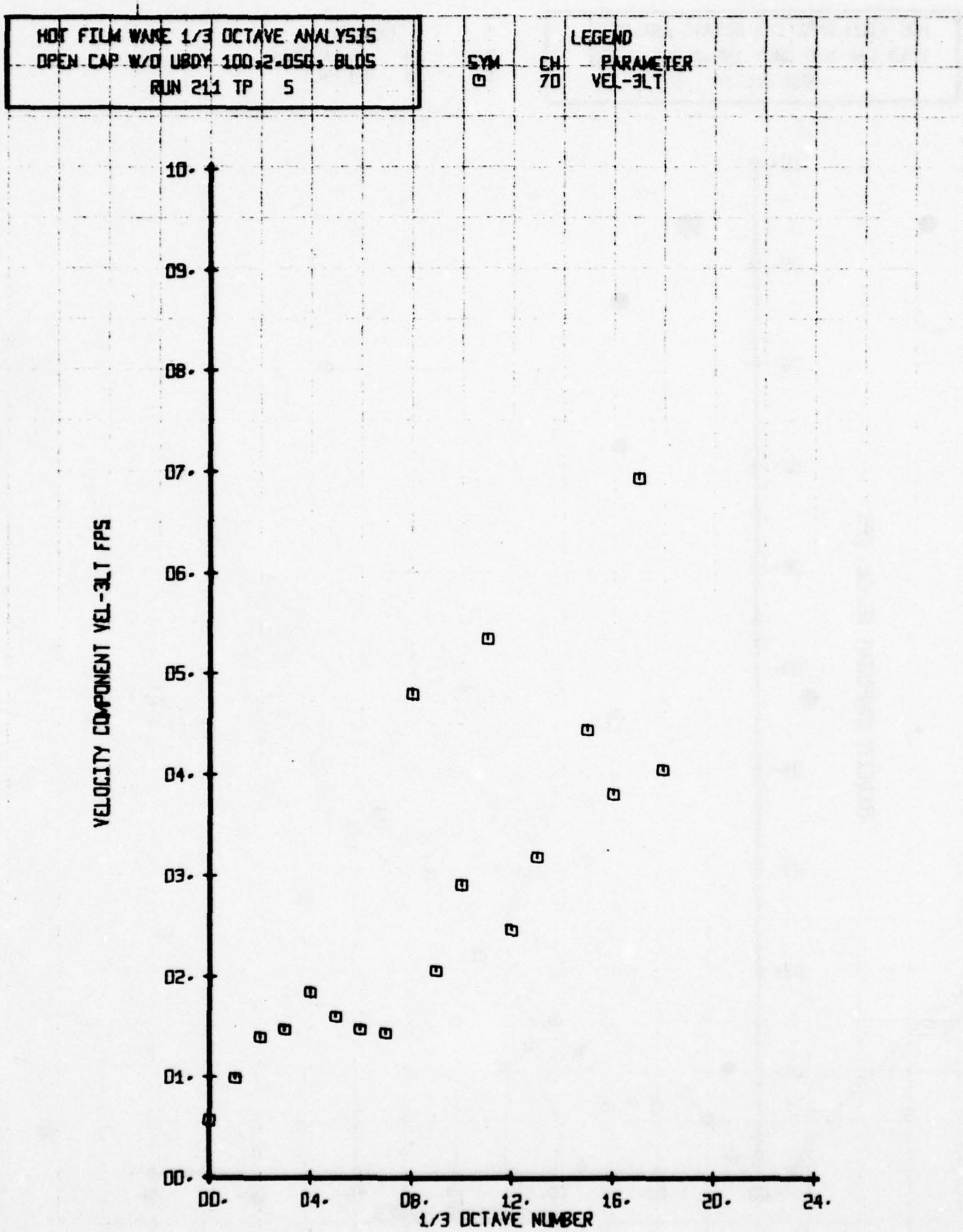


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBOY 100,2-OSG, BLDS
RUN 211 TP 4
LEGEND
SYM CH PARAMETER
70 VEL-3LT
VELOCITY COMPONENT VEL-3LT FPS
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBDY 100,2-050, BLDS
RUN 211 TP 5
LEGEND
SYM CH PARAMETER
70 VEL-3LT
VELOCITY COMPONENT VEL-3LT FPS
1/3 OCTAVE NUMBER
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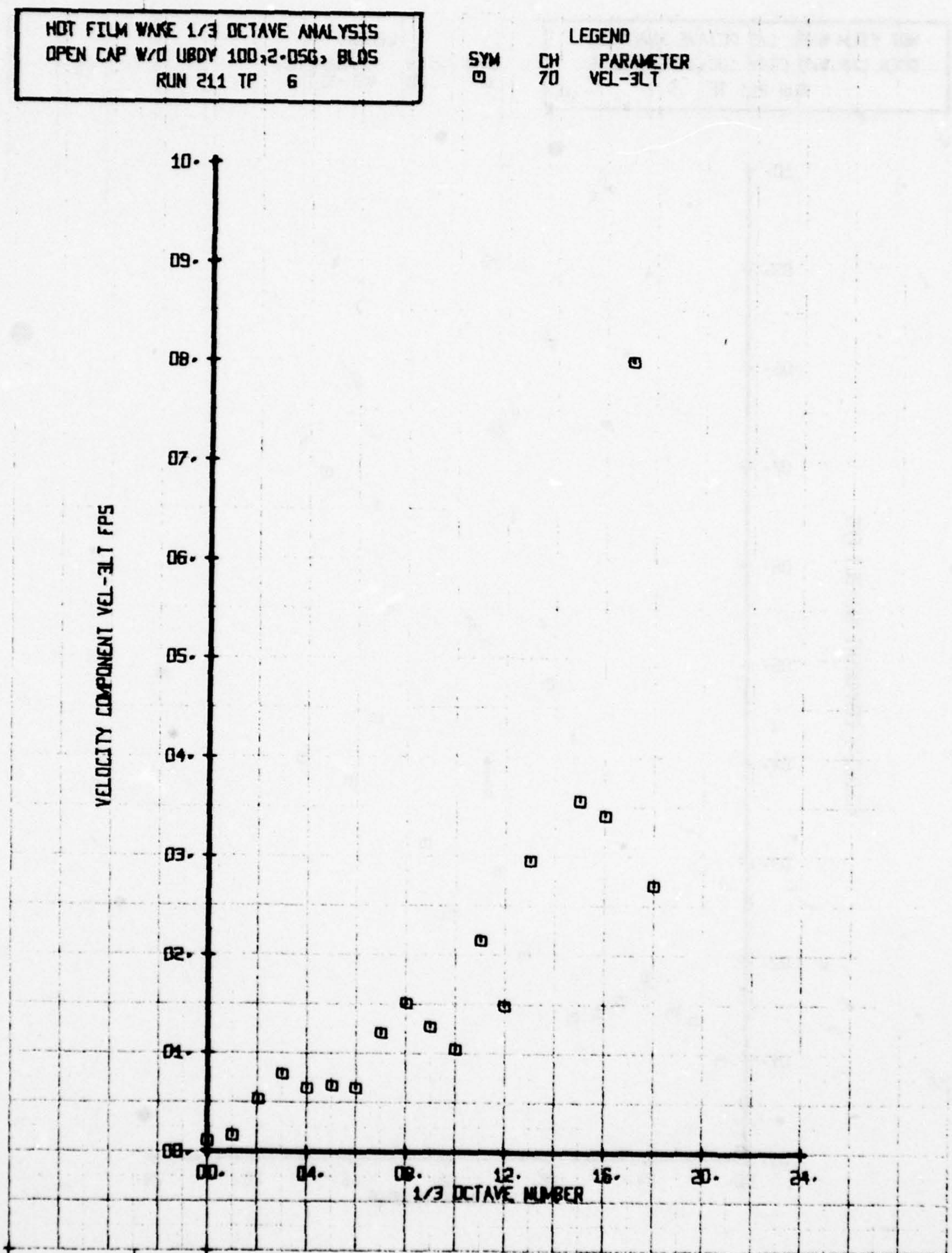
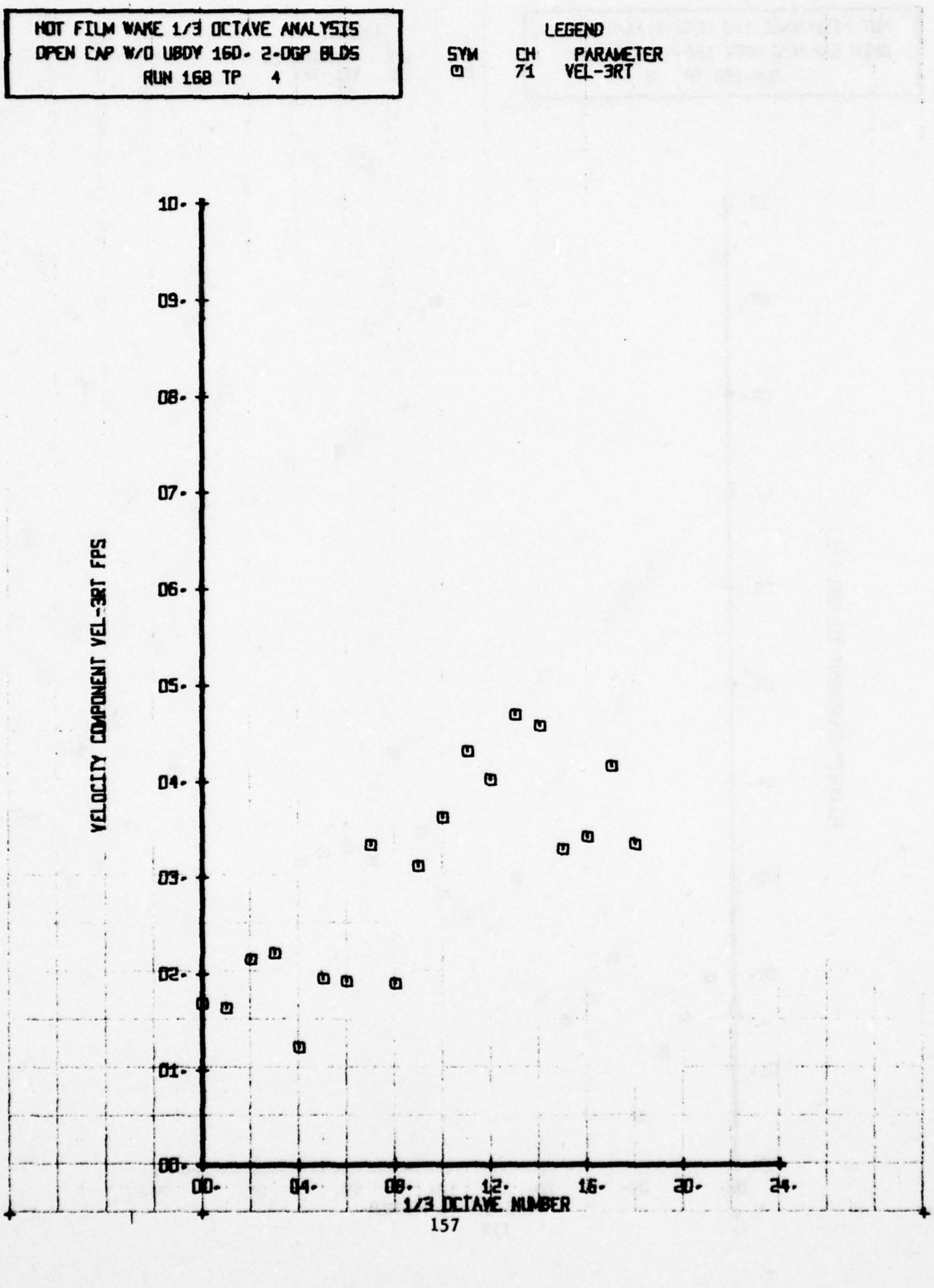
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBDY 100,2-DSG, BLDS
RUN 211 TP 6





HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBDY 160- 2-DGP BLDS
RUN 168 TP 4
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
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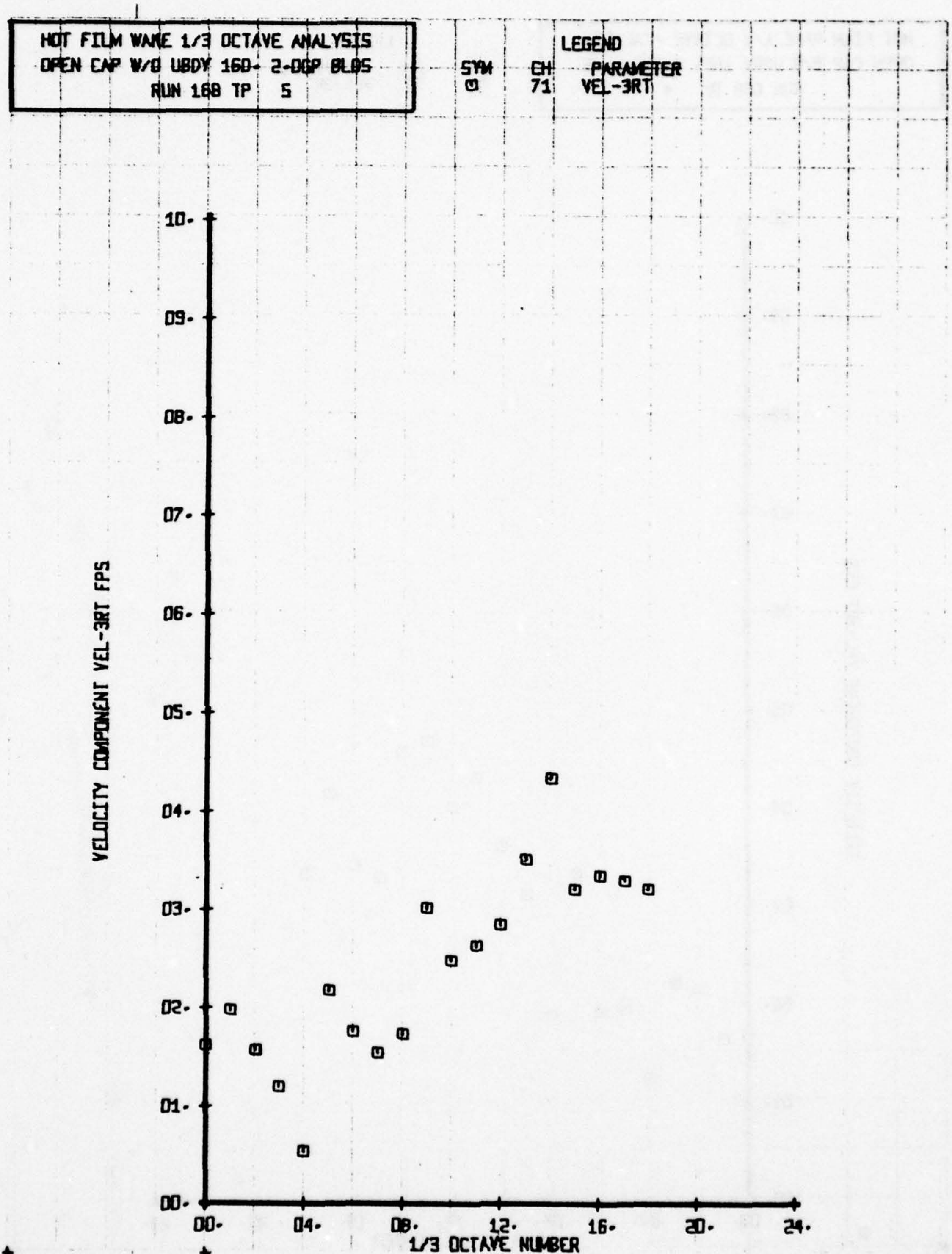
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBDY 160- 2-DGP BLDS
RUN 168 TP 5
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
1/3 OCTAVE NUMBER
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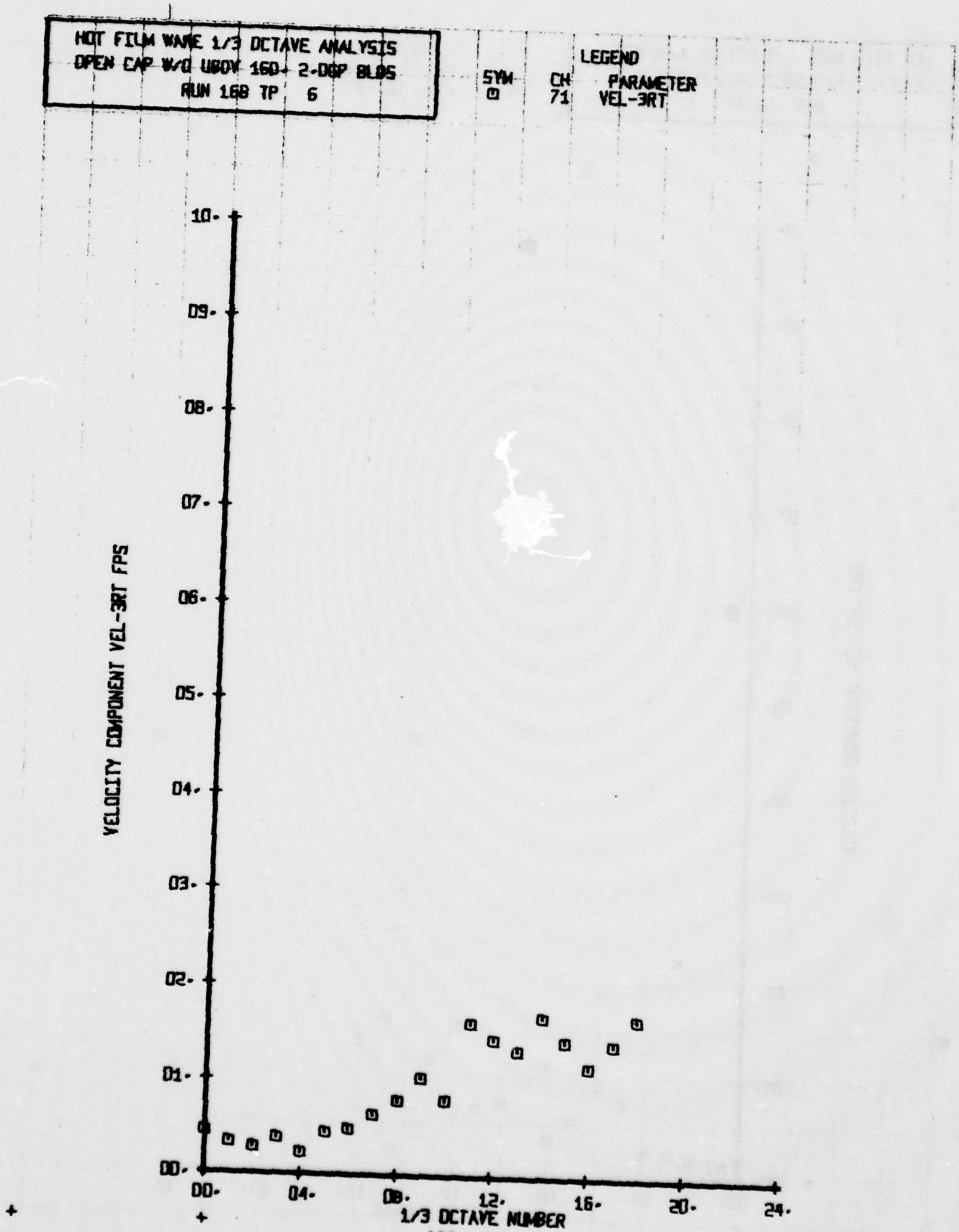
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OPEN CAP W/O UBOY 16D- 2-DGP BLDS
RUN 168 TP 6
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
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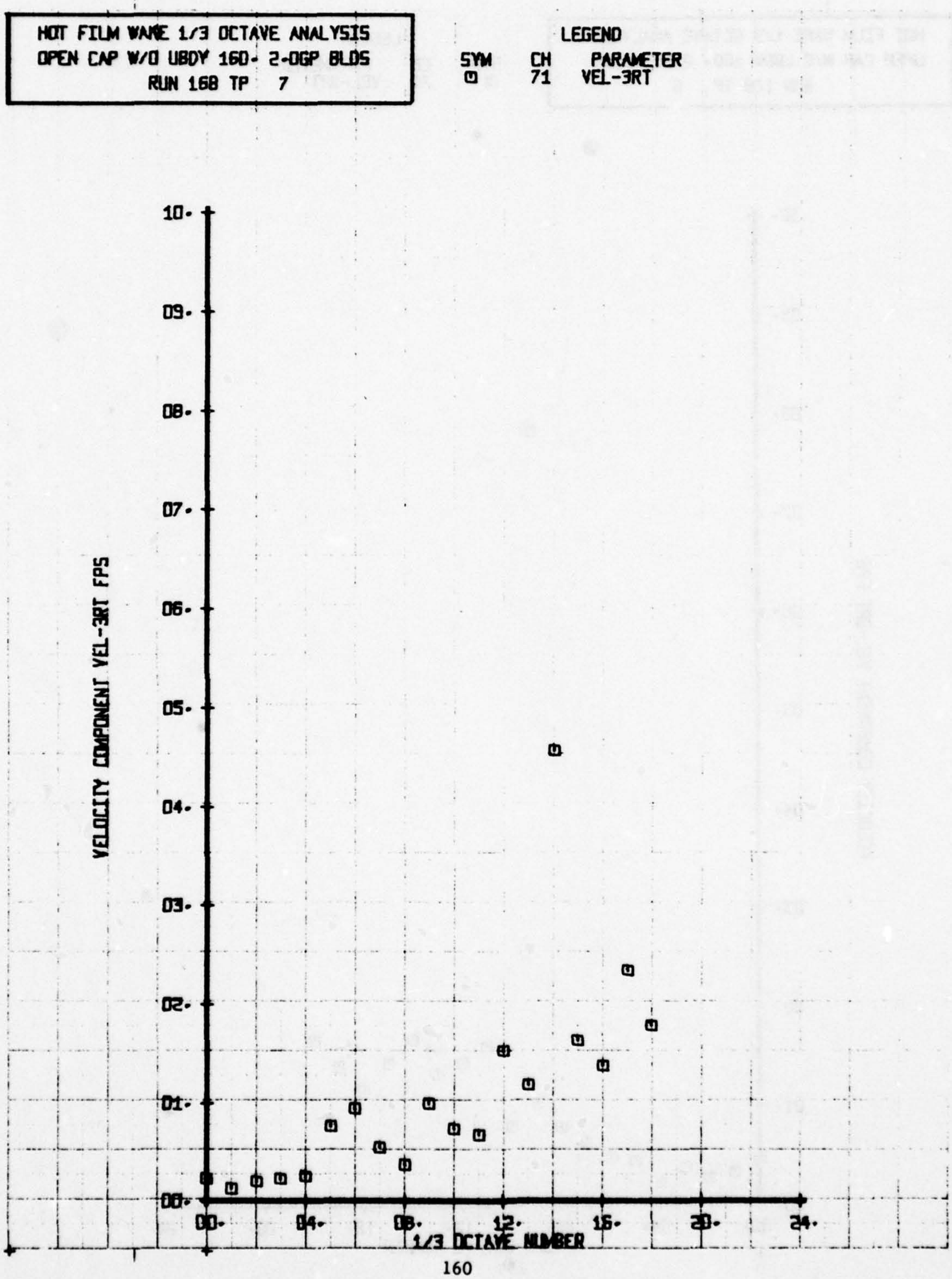
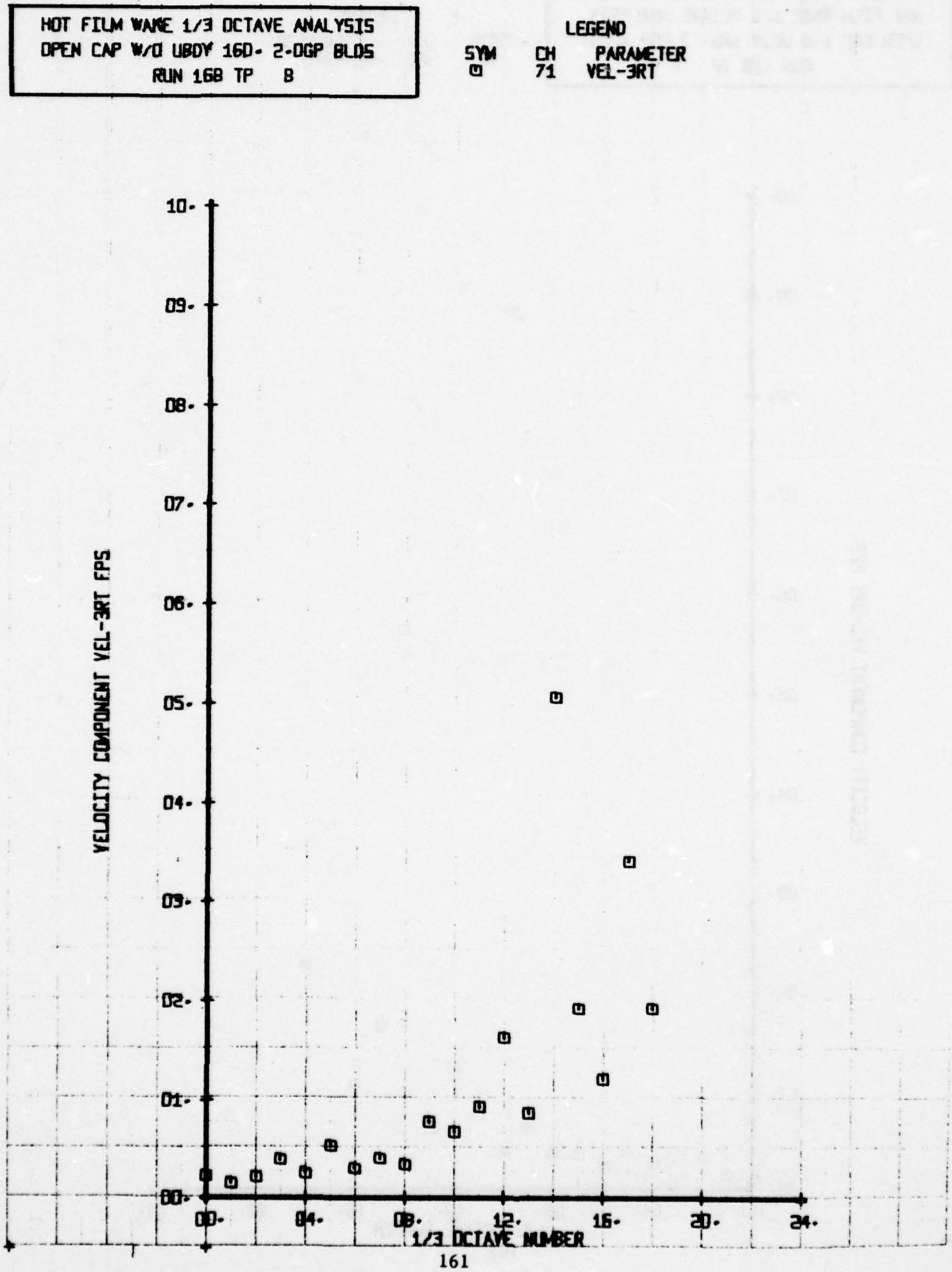
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBDY 160- 2-OGP BLDS
RUN 168 TP 7




HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBDY 16D- 2-OGP BLDS
RUN 168 TP 8
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
1/3 OCTAVE NUMBER
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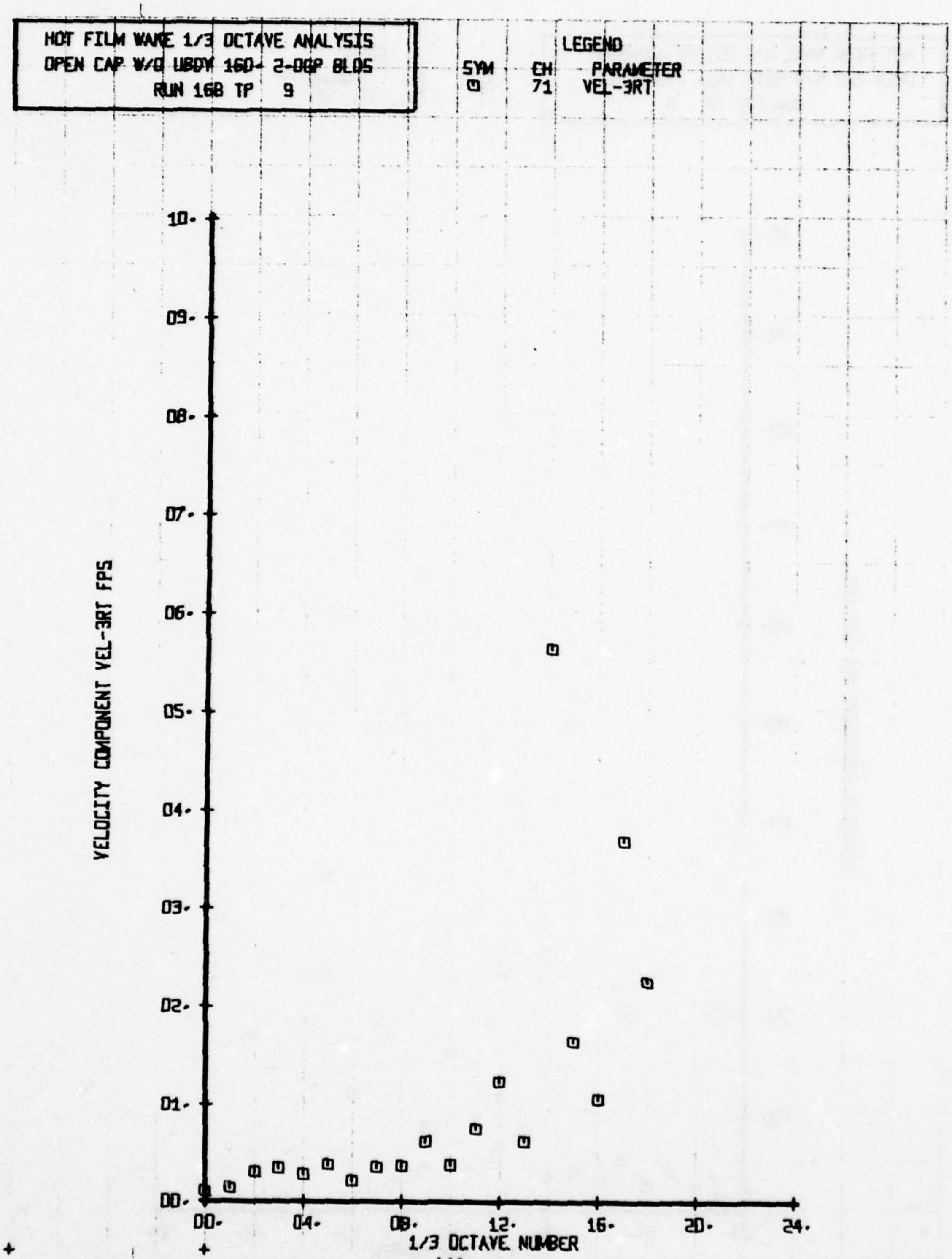
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBDY 160- 2-DGP BLDS
RUN 168 TP 9
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
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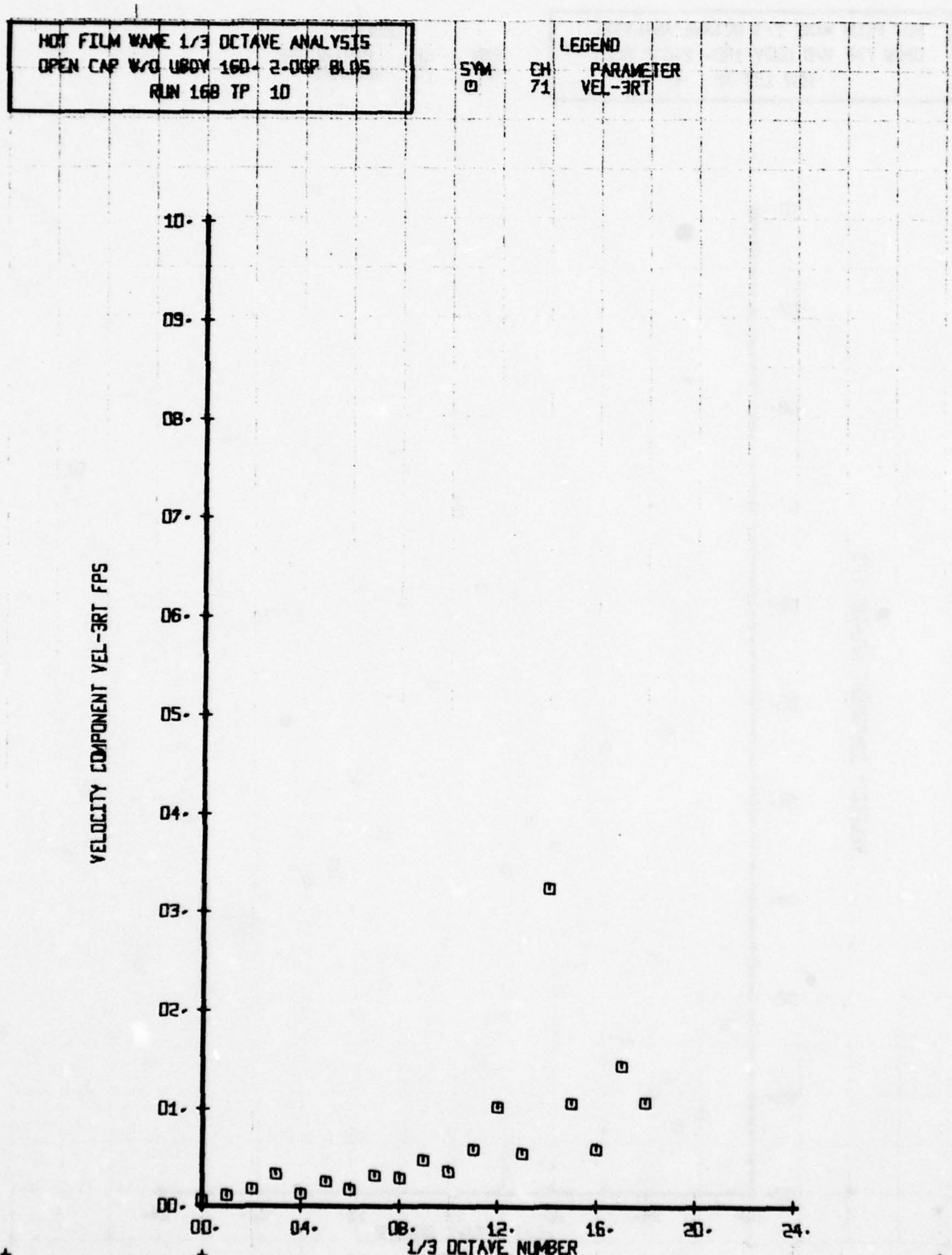
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBOY 160- 2-OOP BLDS
RUN 168 TP 10
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
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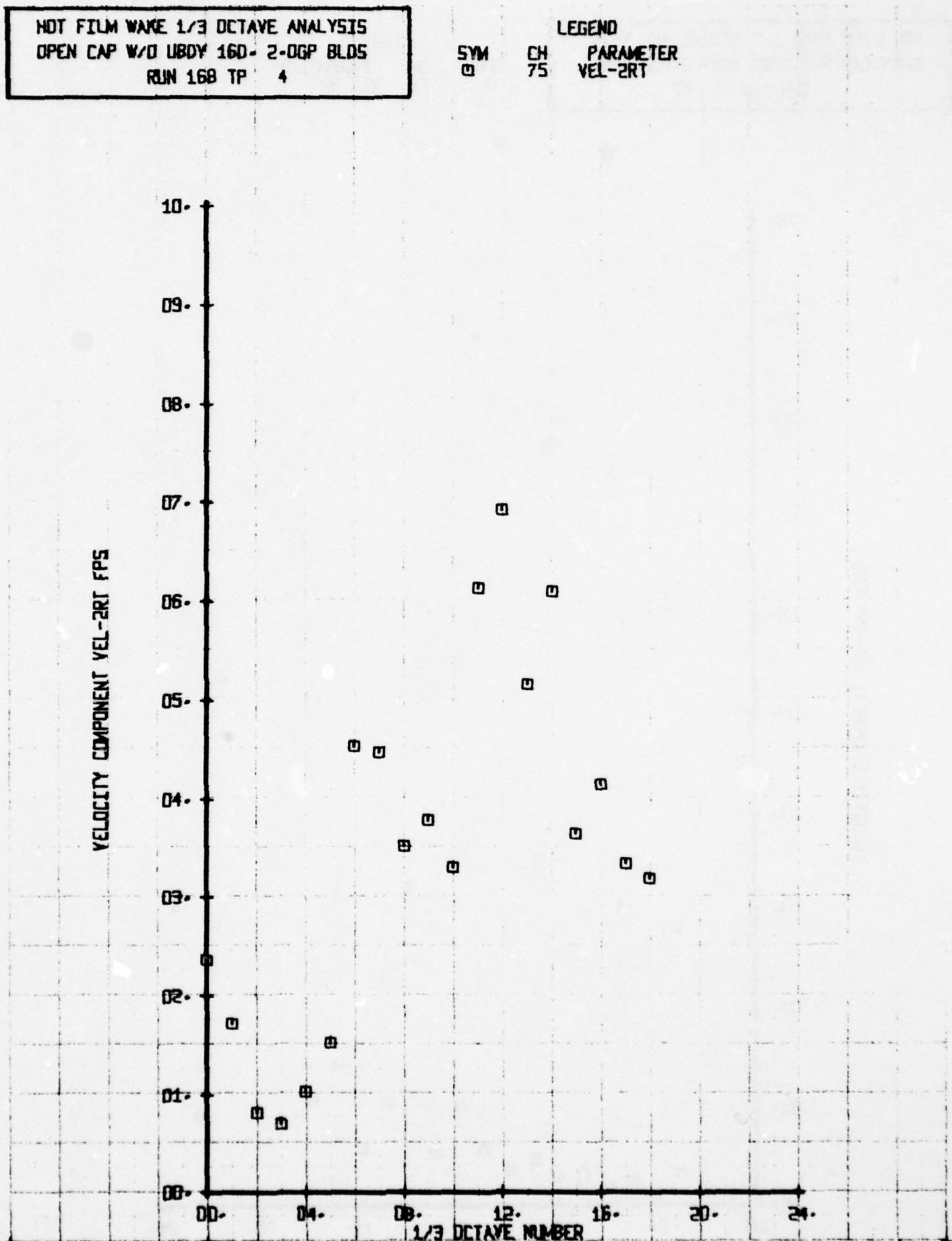
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBDY 16D- 2-OGP BLDS
RUN 168 TP 4
LEGEND
SYM CH PARAMETER
75 VEL-2RT
VELOCITY COMPONENT VEL-2RT FPS
1/3 OCTAVE NUMBER
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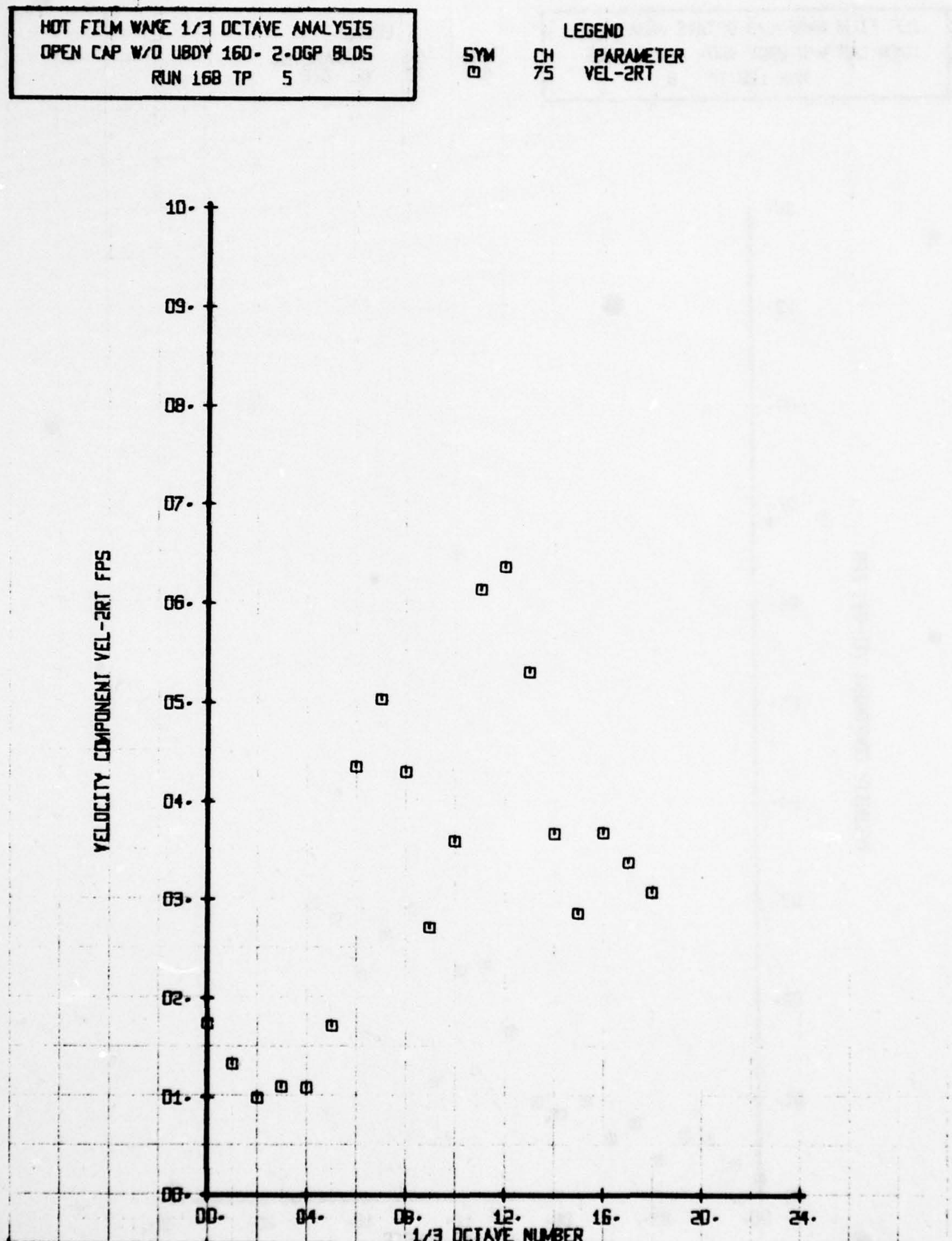
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBDY 16D- 2-0GP BLDS
RUN 168 TP 5
LEGEND
SYM CH PARAMETER
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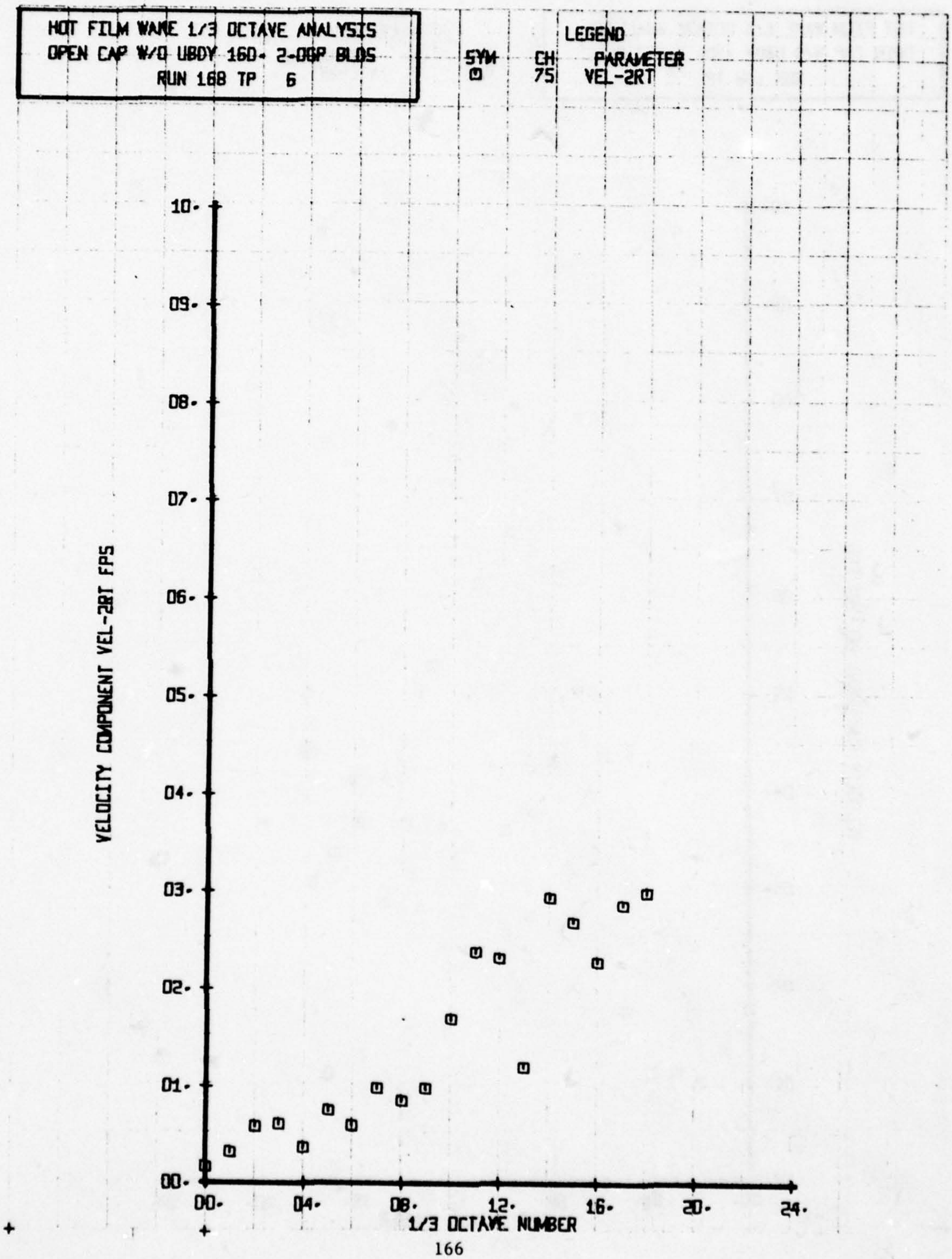
VELOCITY COMPONENT VEL-2RT FPS
1/3 OCTAVE NUMBER



HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBDY 16D- 2-DOP BLDS
RUN 168 TP 6
LEGEND
SYM CH PARAMETER
75 VEL-2RT
VELOCITY COMPONENT VEL-2RT FPS
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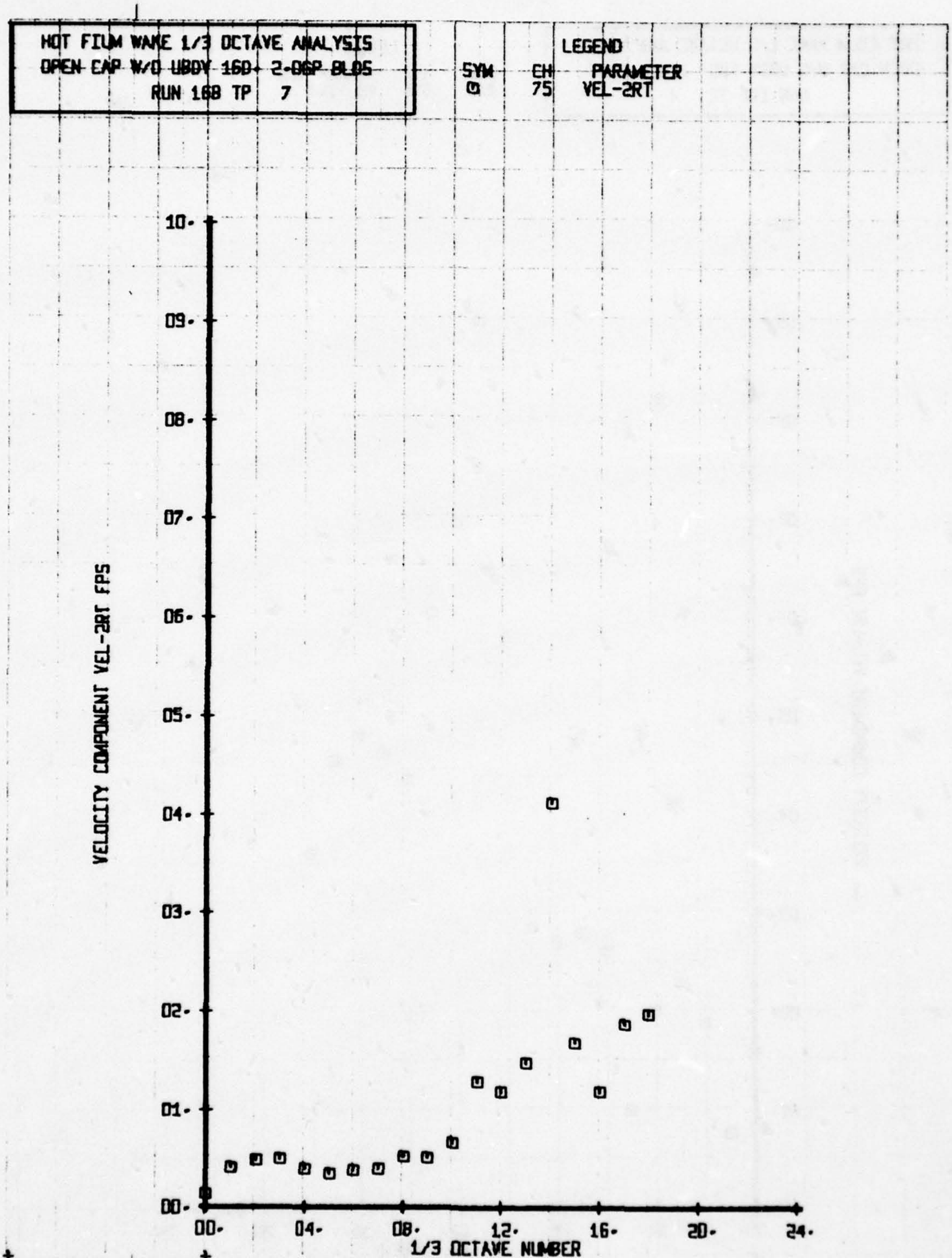
1/3 OCTAVE NUMBER



HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBDY 16D- 2-DGP BLDS
RUN 168 TP 7
LEGEND
SYM CH PARAMETER
75 VEL-2RT
VELOCITY COMPONENT VEL-2RT FPS
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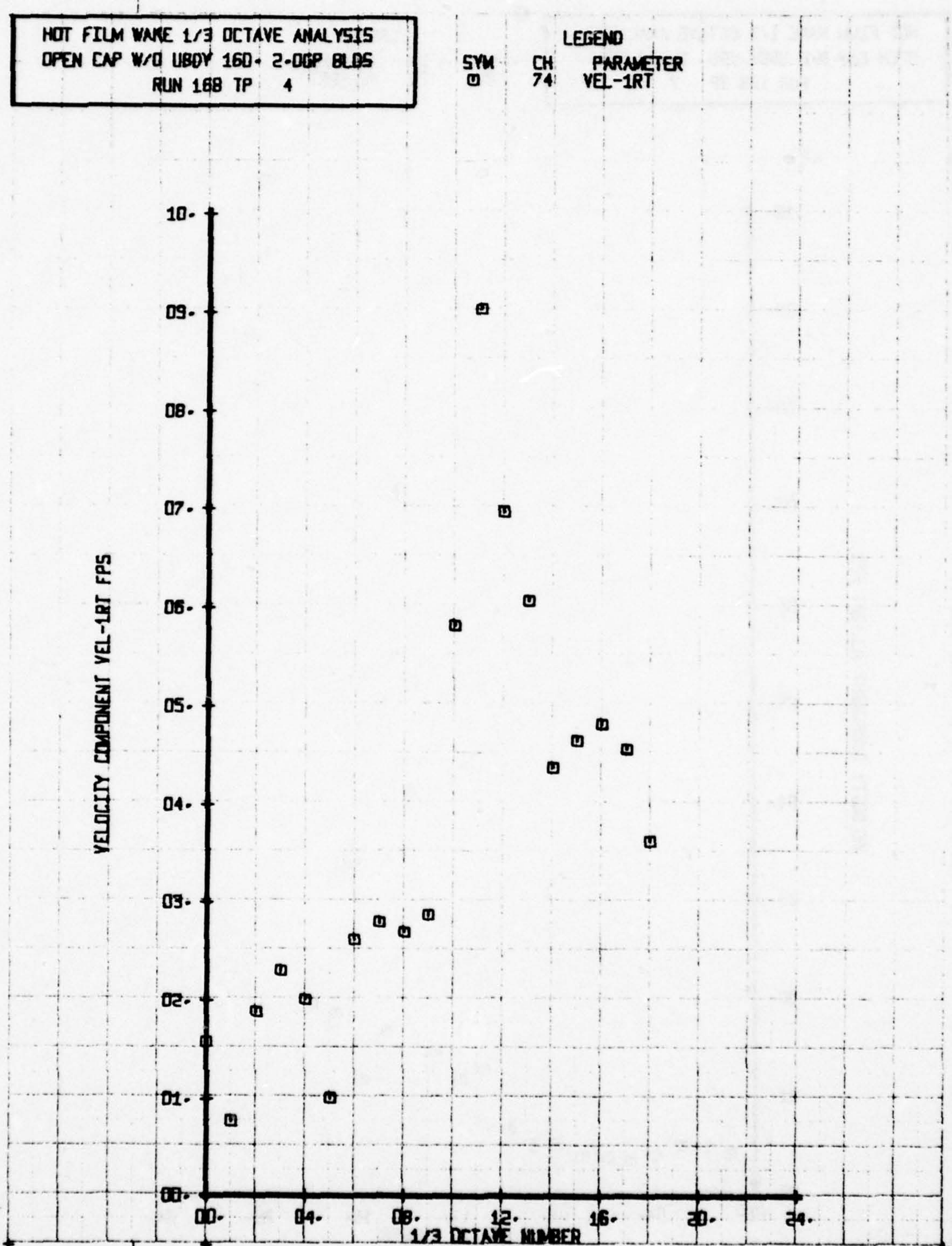

HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBOY 16D- 2-0GP BLDS
RUN 168 TP 4
LEGEND
SYM CH PARAMETER
74 VEL-1RT
VELOCITY COMPONENT VEL-1RT FPS
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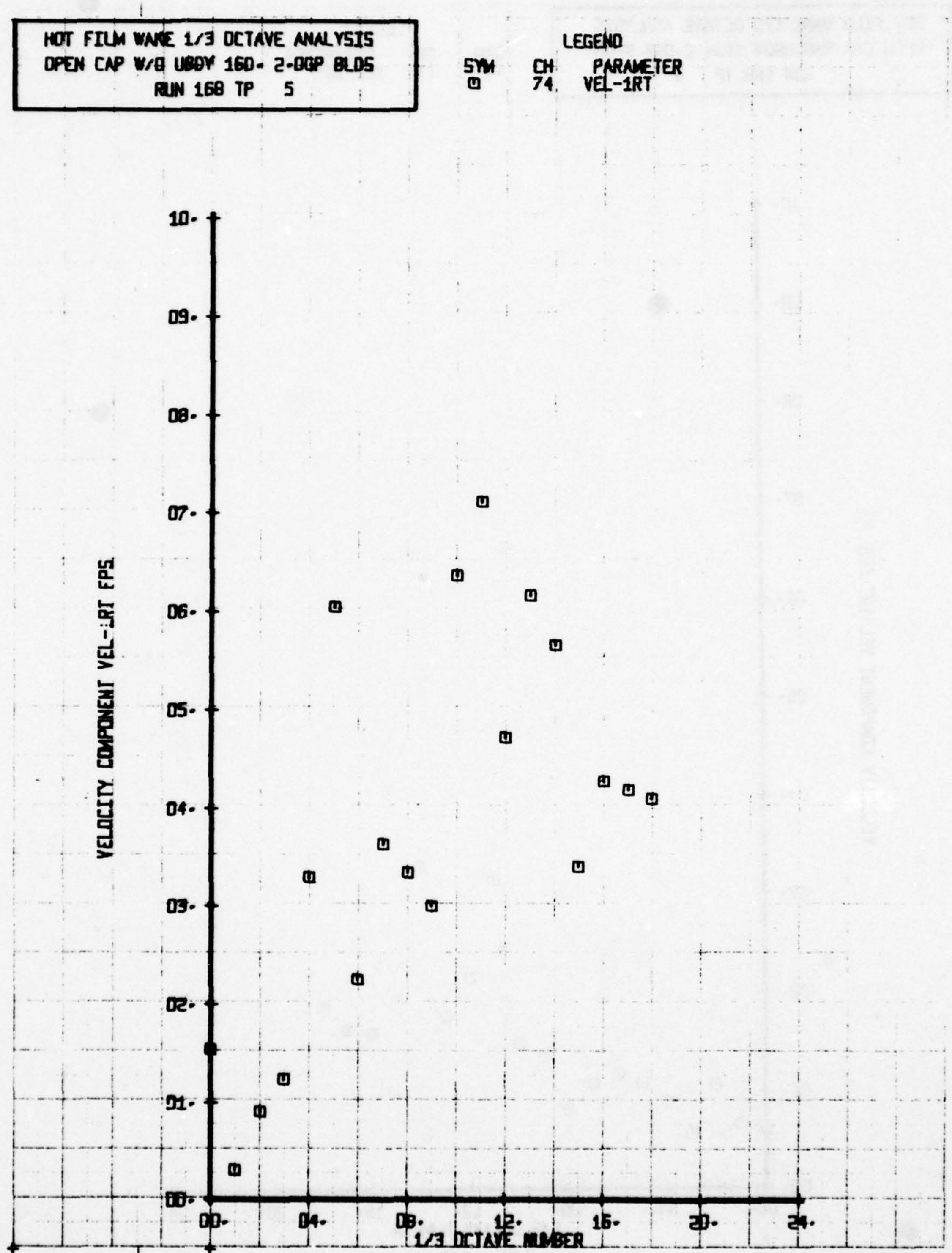
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBDY 160- 2-OGP BLDS
RUN 168 TP 5
LEGEND
SYM CH PARAMETER
74. VEL-1RT
VELOCITY COMPONENT VEL-1RT FPS
1/3 OCTAVE NUMBER
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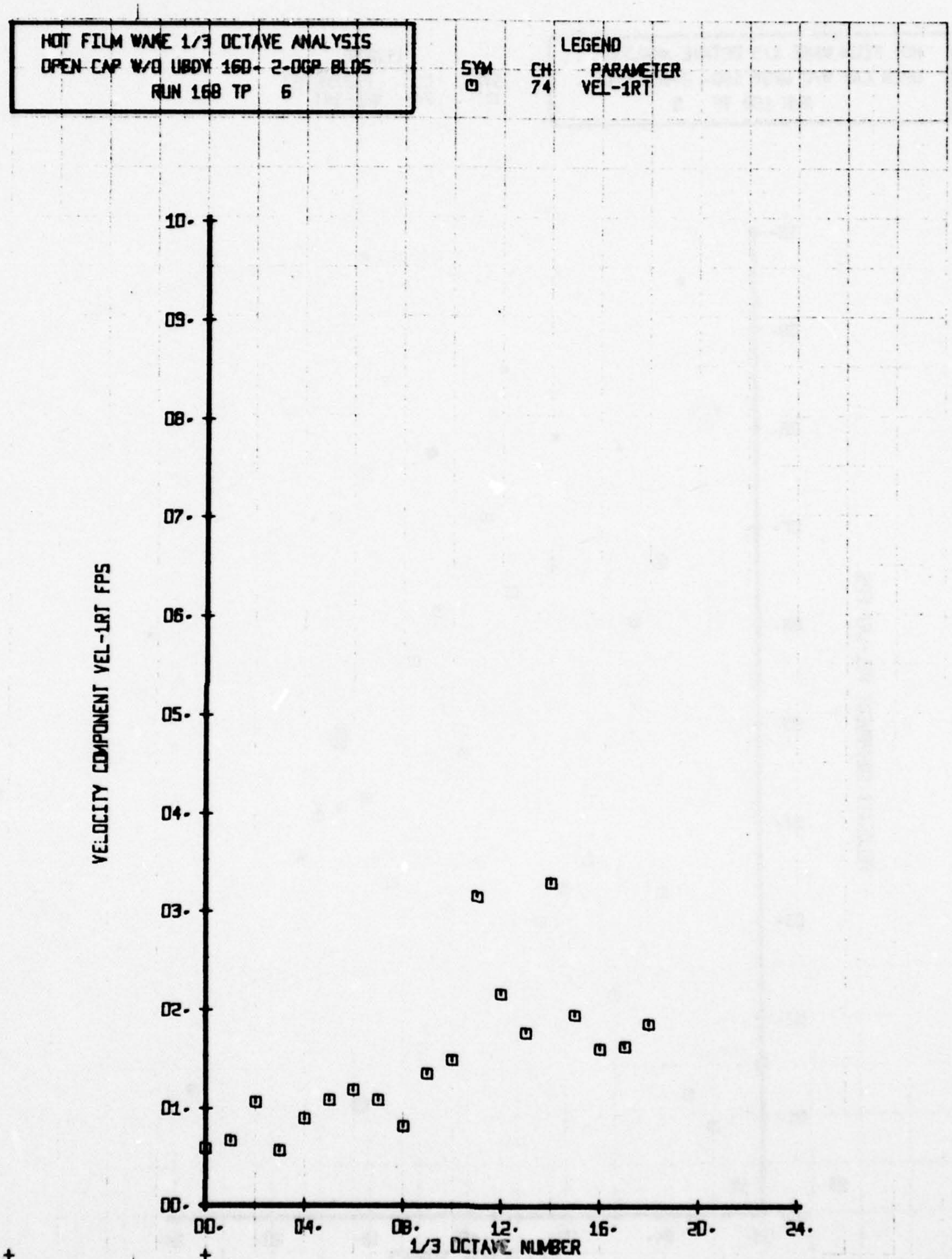
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBDY 160- 2-DGP BLDS
RUN 168 TP 6
LEGEND
SYM CH PARAMETER
74 VEL-1RT
VELOCITY COMPONENT VEL-1RT FPS
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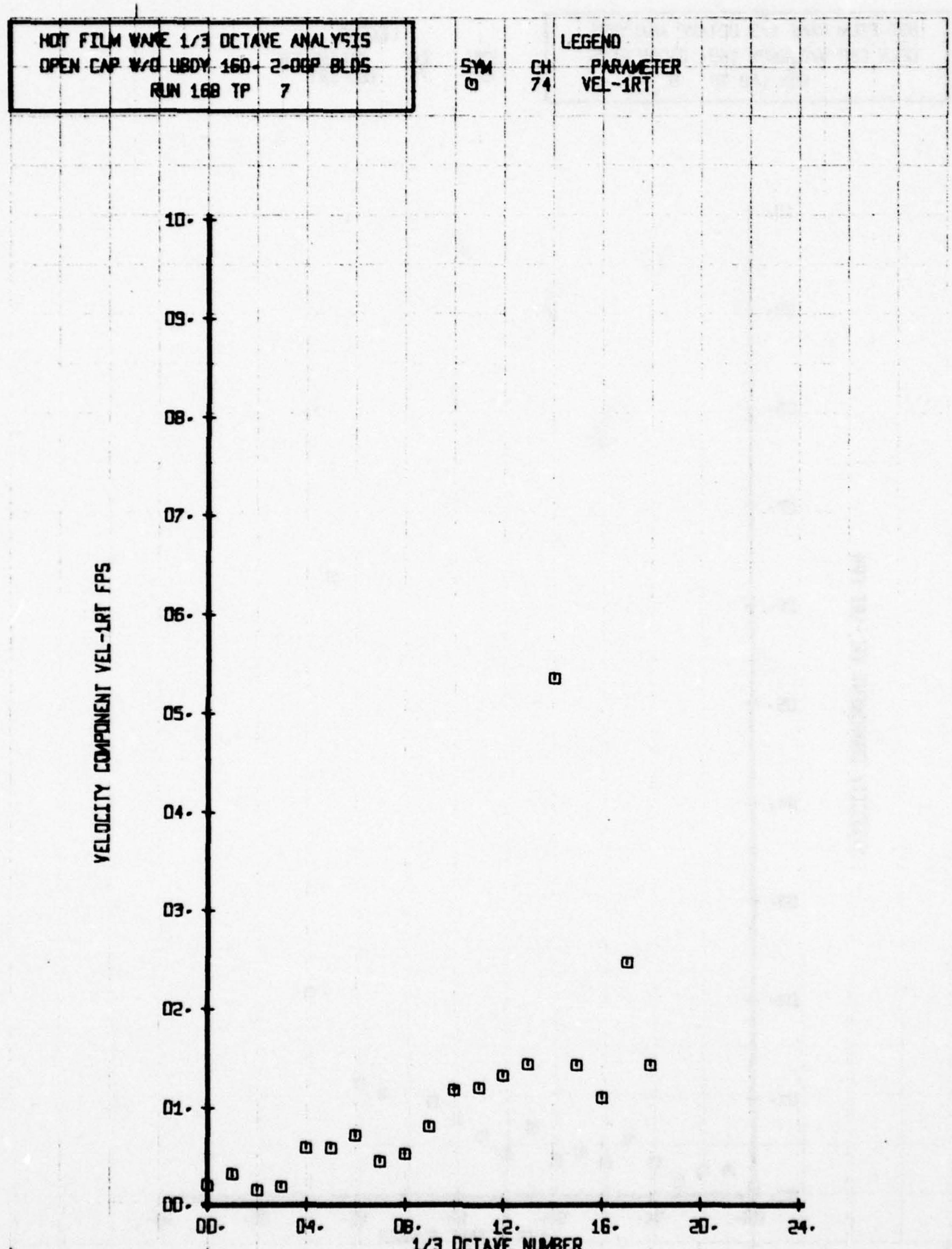
1/3 OCTAVE NUMBER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OPEN CAP W/O UBDY 160- 2-08P BLDS
RUN 168 TP 7
LEGEND
SYM CH PARAMETER
74 VEL-1RT
VELOCITY COMPONENT VEL-1RT FPS
1/3 OCTAVE NUMBER
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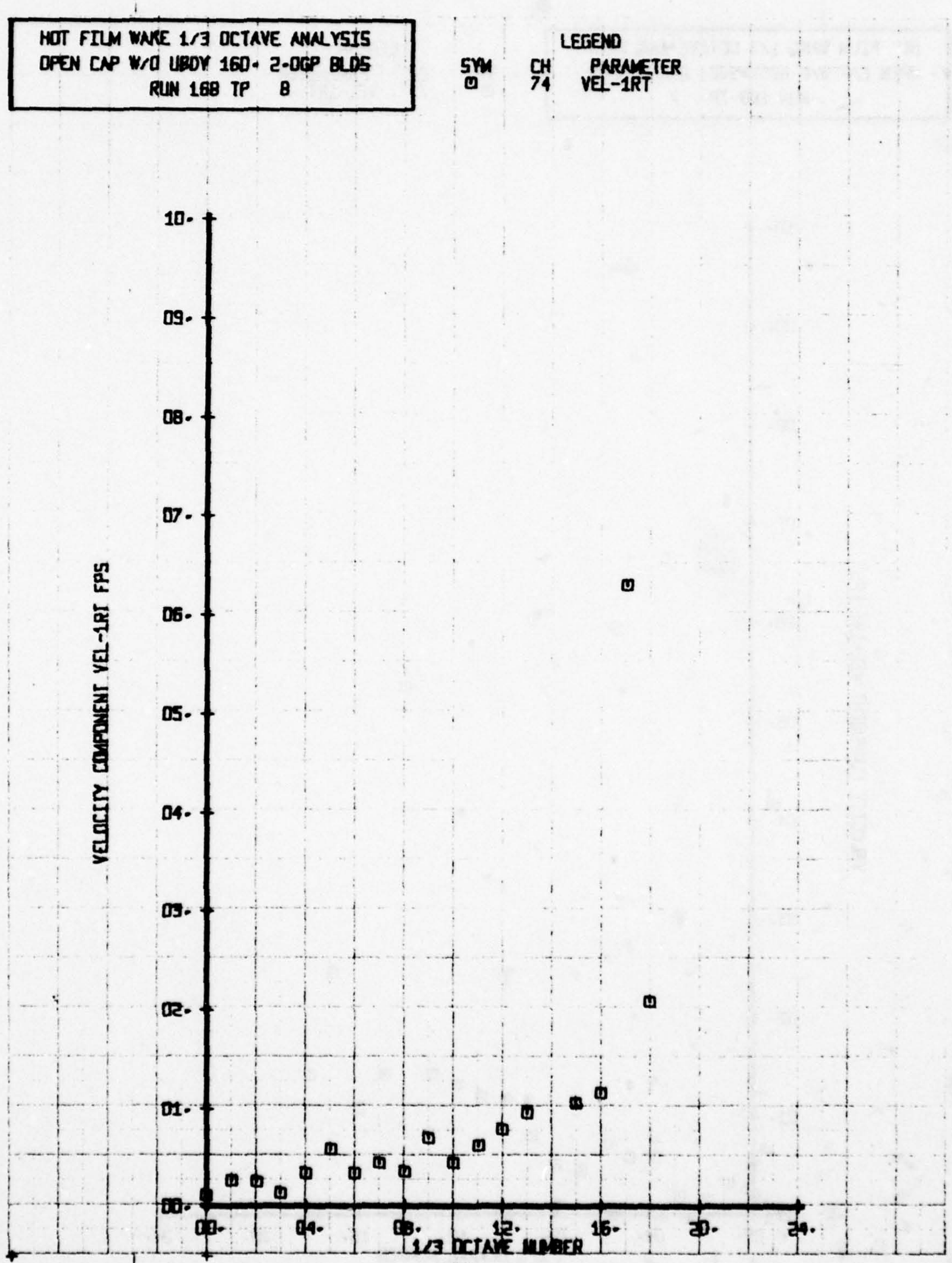
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBOY 160 - 2-OGP BLDS
RUN 168 TP 8
LEGEND
SYM CH PARAMETER
74 VEL-1RT
VELOCITY COMPONENT VEL-1RT FPS
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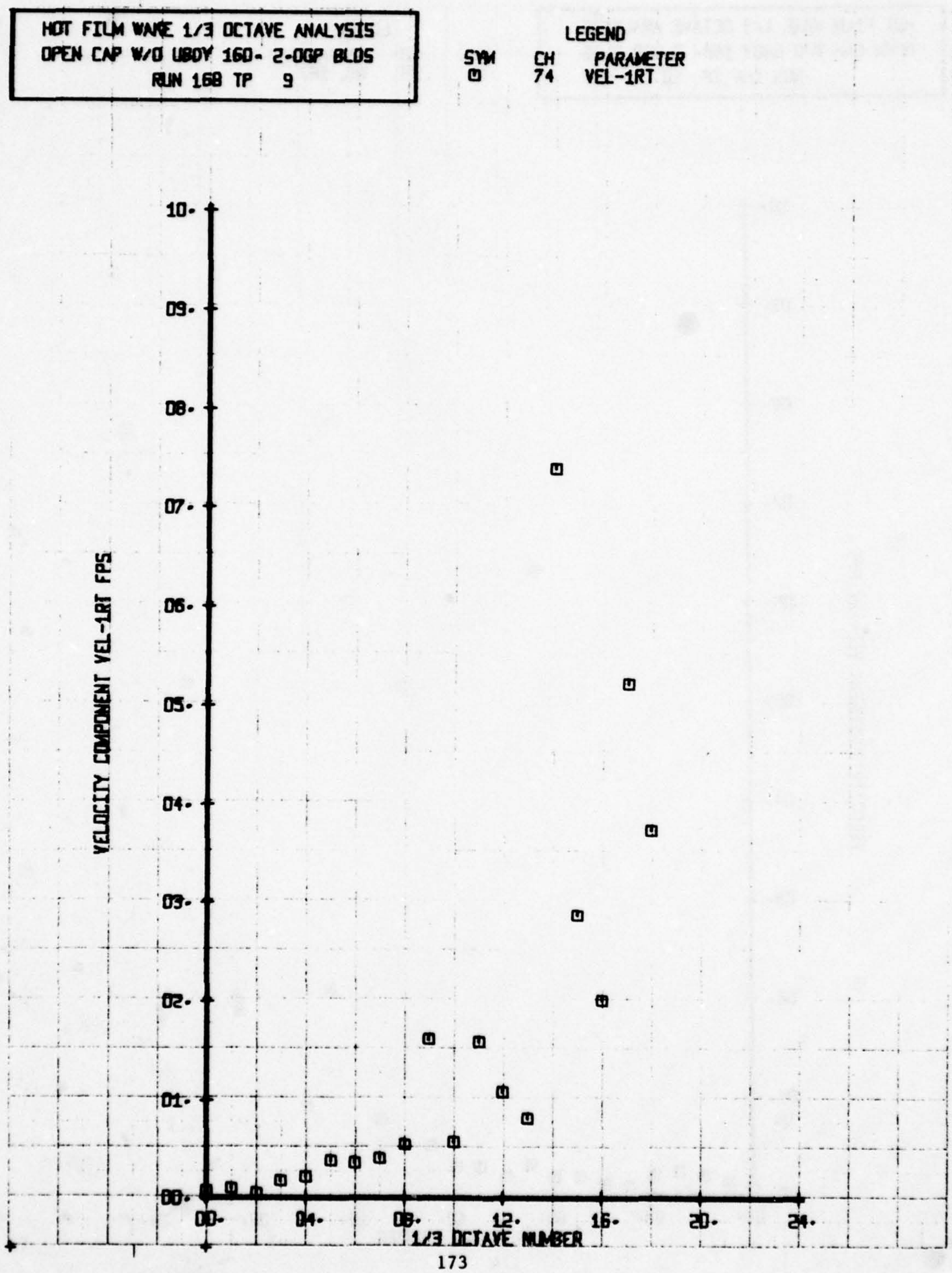
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBOY 160- 2-OGP BLDS
RUN 168 TP 9
LEGEND
SYM CH PARAMETER
74 VEL-1RT
VELOCITY COMPONENT VEL-1RT FPS
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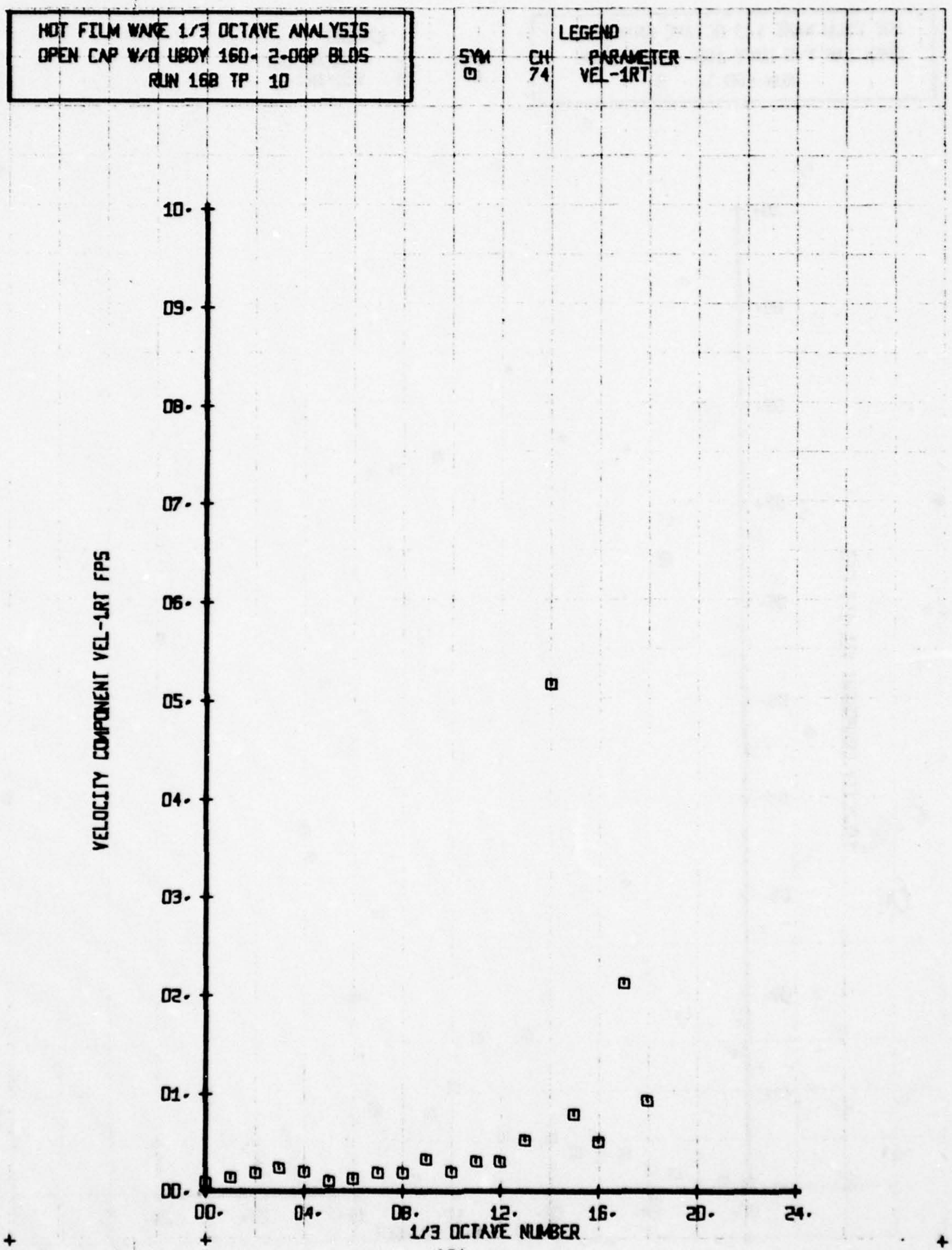
1/3 OCTAVE NUMBER



HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBDY 16D- 2-00P BLDS
RUN 168 TP 10
LEGEND
SYM CH PARAMETER
74 VEL-1RT
VELOCITY COMPONENT VEL-1RT FPS
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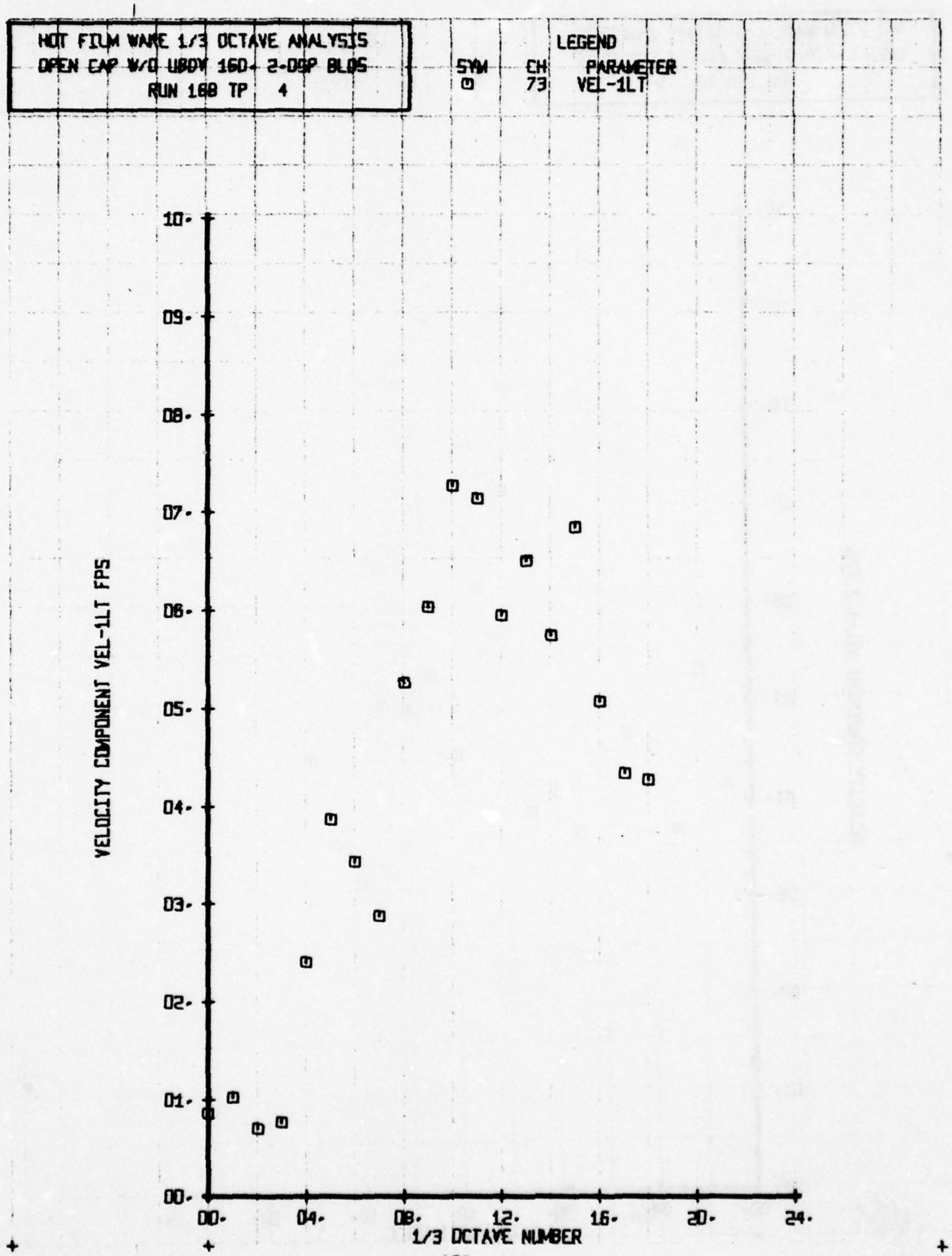
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBDY 16D- 2-DOP BLDS
RUN 168 TP 4
LEGEND
SYM CH PARAMETER
73 VEL-1LT
VELOCITY COMPONENT VEL-1LT FPS
1/3 OCTAVE NUMBER
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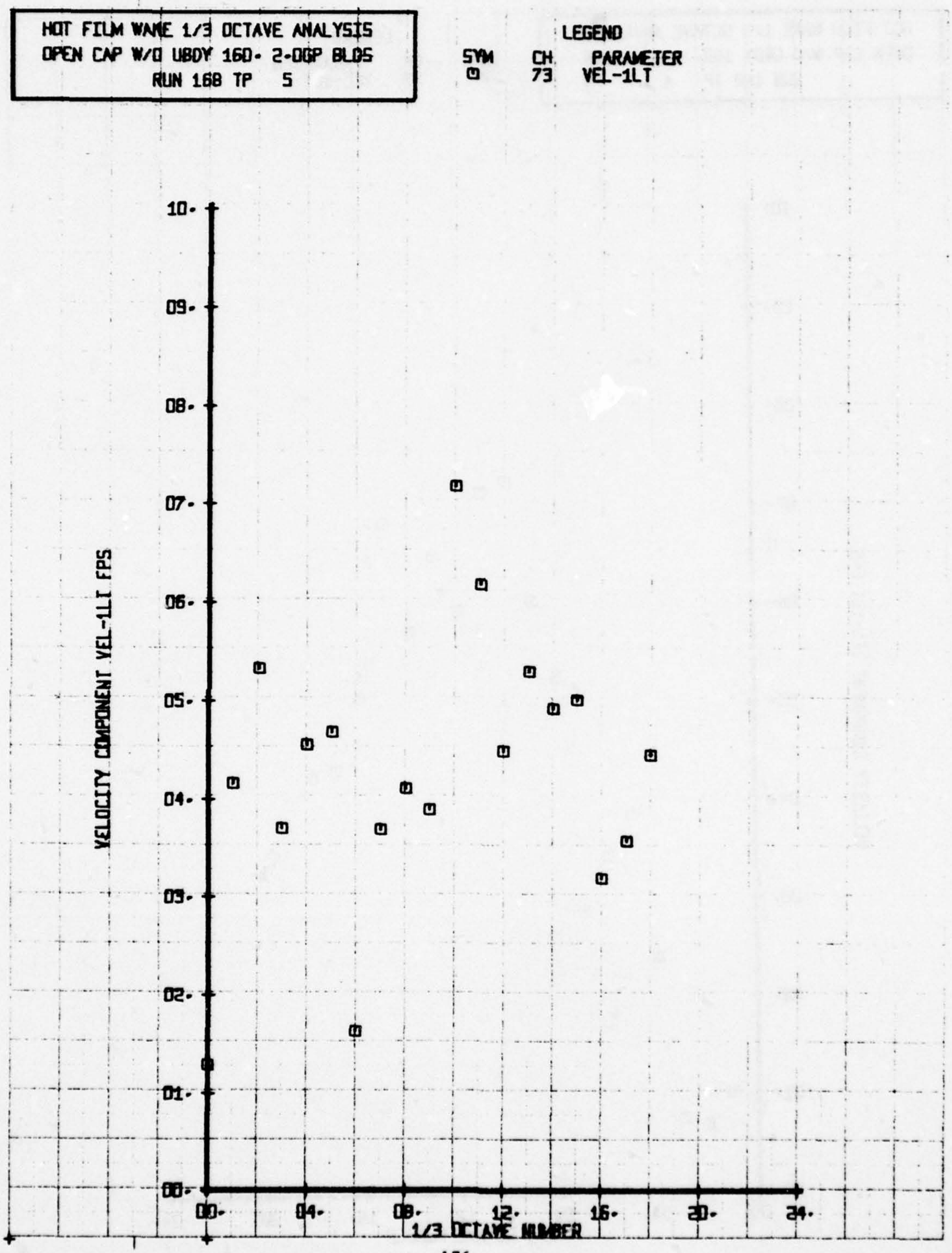
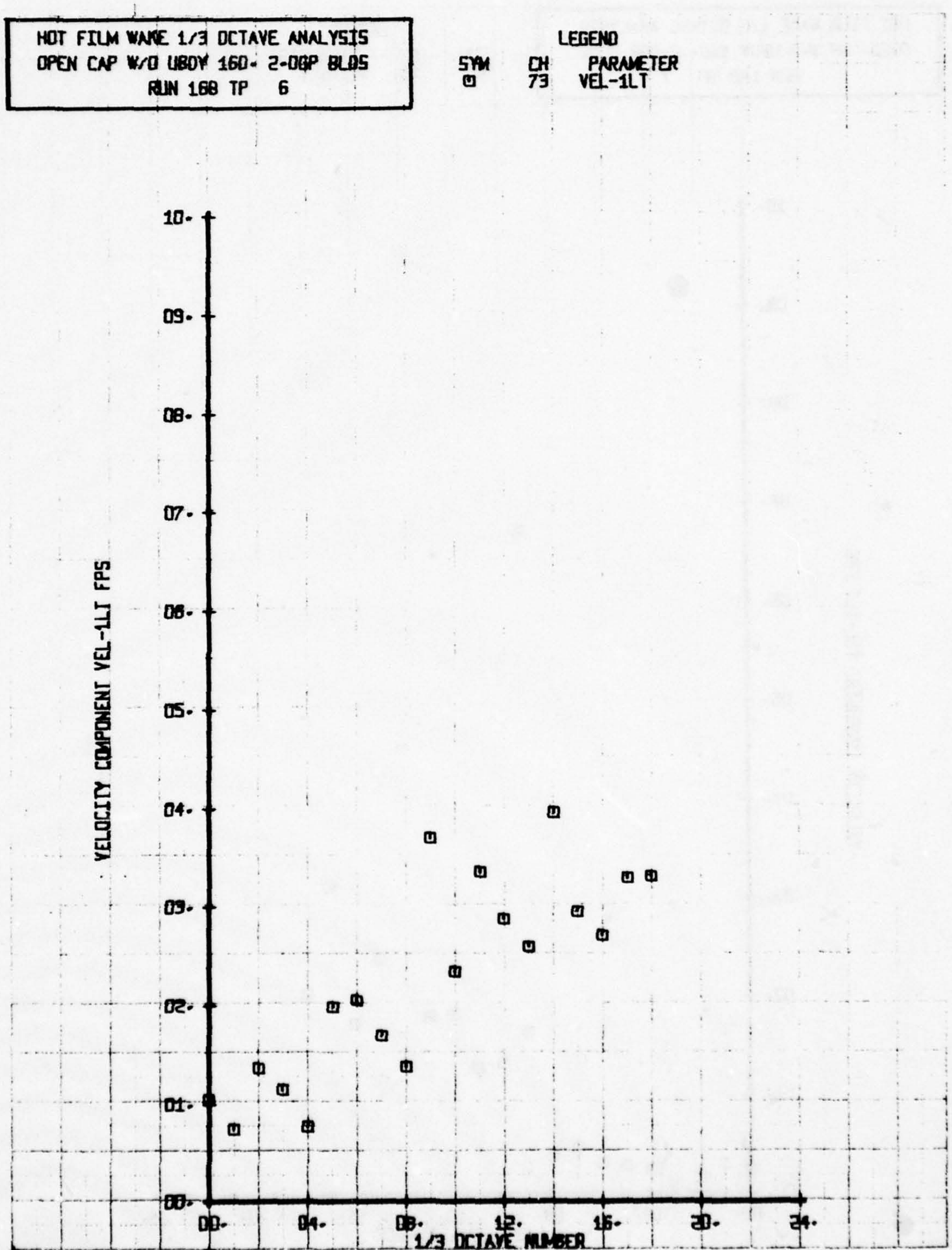


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBDY 160. 2-0GP BLDS
RUN 168 TP 5
LEGEND
SYM CH. PARAMETER
73 VEL-1LT
VELOCITY COMPONENT VEL-1LT FPS
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBDY 160- 2-DGP BLDS
RUN 168 TP 6
LEGEND
SYM CH PARAMETER
73 VEL-1LT
VELOCITY COMPONENT VEL-1LT FPS
1/3 OCTAVE NUMBER
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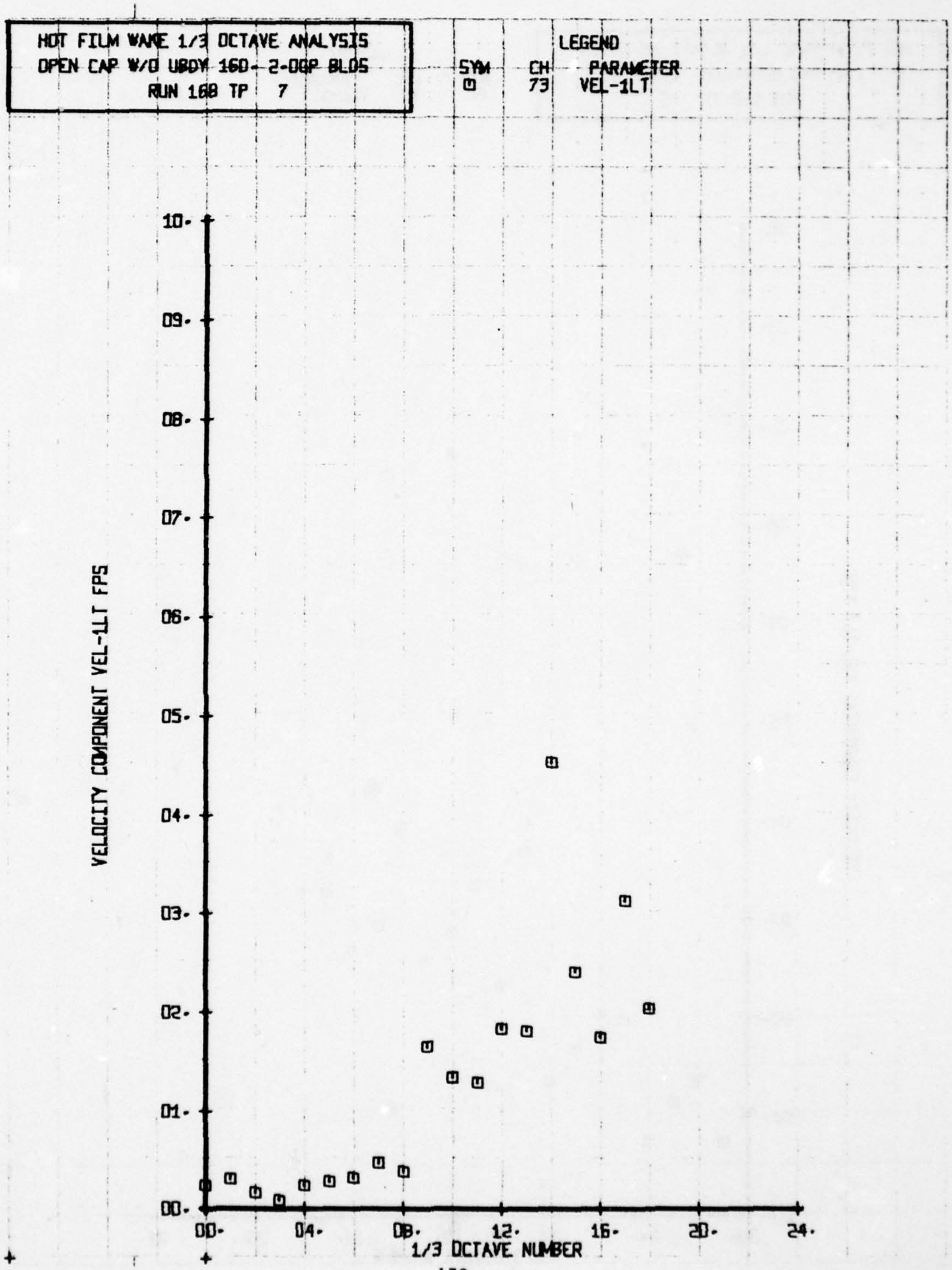
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBDY 16D- 2-00P BLDS
RUN 168 TP 7
LEGEND
SYM CH PARAMETER
73 VEL-1LT
VELOCITY COMPONENT VEL-1LT FPS
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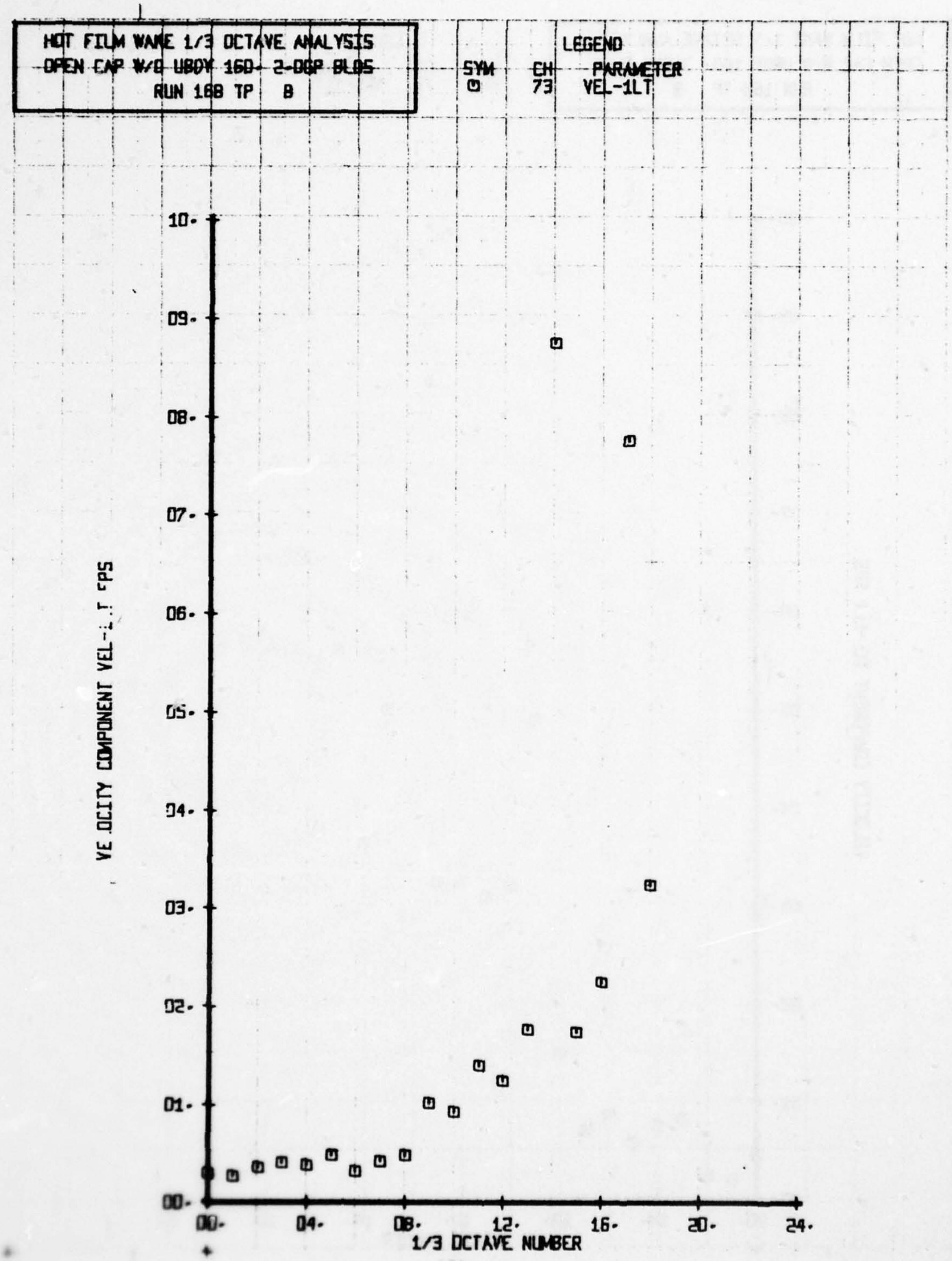
1/3 OCTAVE NUMBER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OPEN CAP W/O UBOY 16D- 2-DGP BLDS
RUN 168 TP B
LEGEND
SYM CH PARAMETER
73 VEL-1LT
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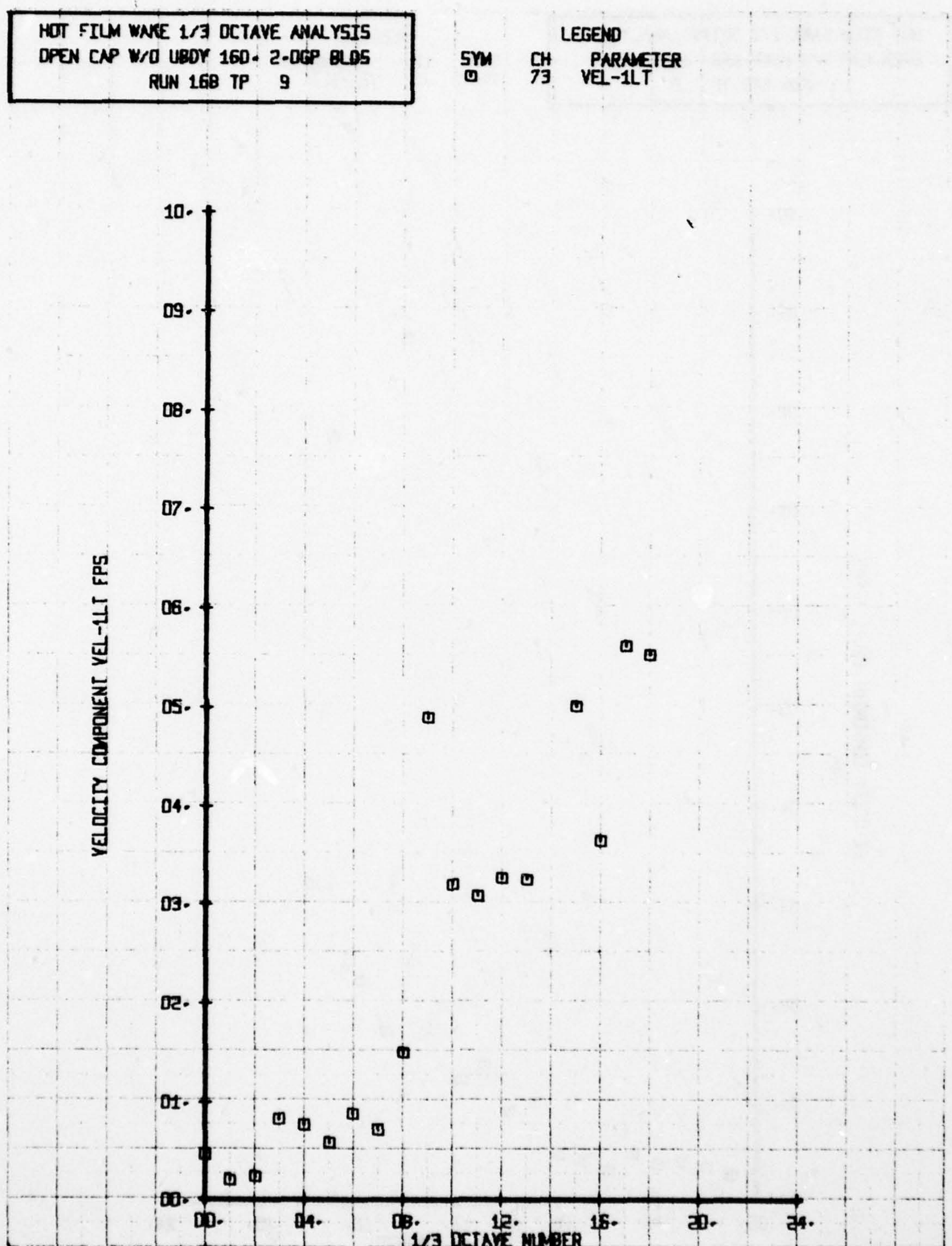
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OPEN CAP W/O UBDY 16D- 2-OGP BLDS
RUN 168 TP 9
LEGEND
SYM CH PARAMETER
73 VEL-1LT
VELOCITY COMPONENT VEL-1LT FPS
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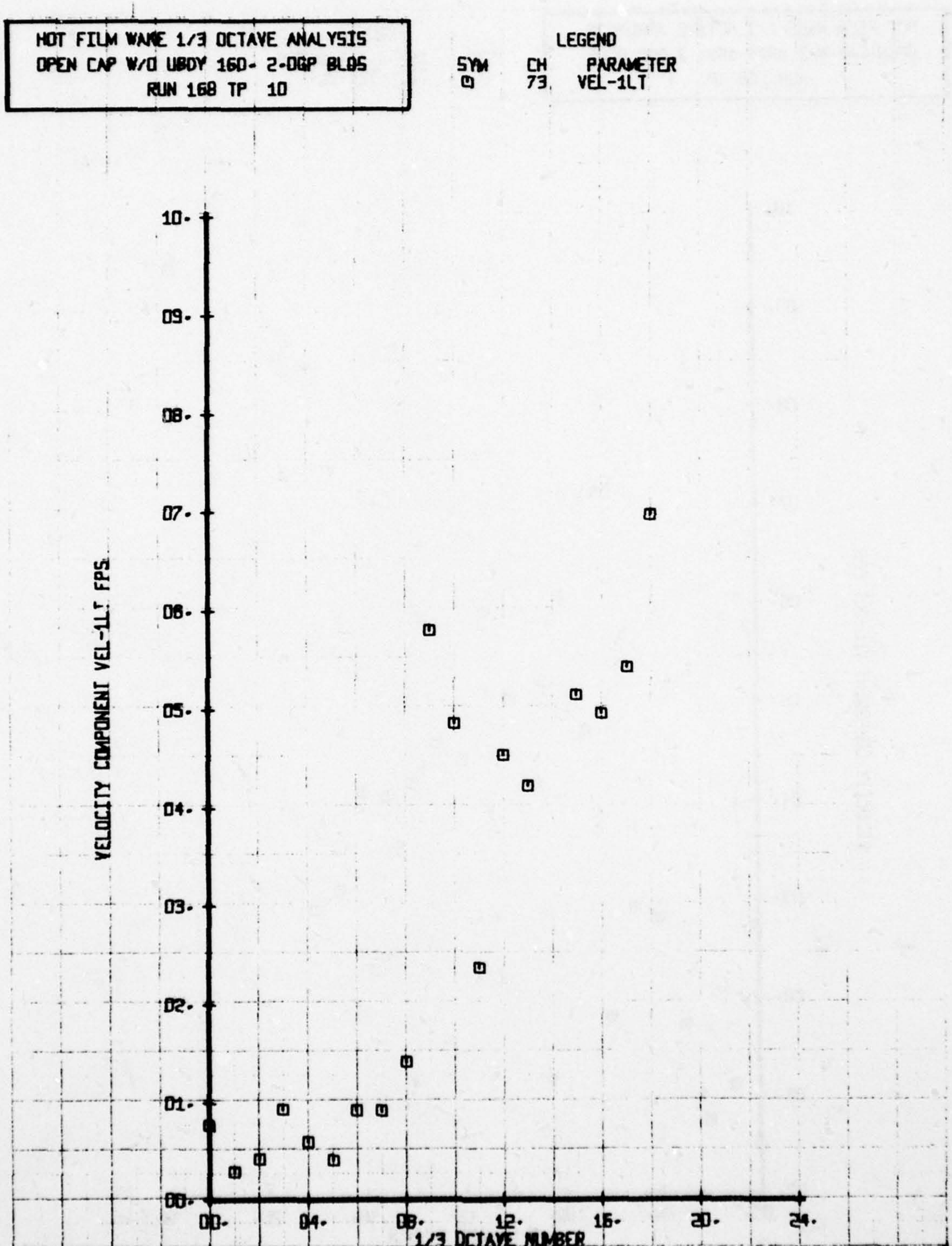
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OPEN CAP W/O UBDY 160- 2-DGP BLDS
RUN 168 TP 10
LEGEND
SYM CH PARAMETER
73 VEL-1LT
VELOCITY COMPONENT VEL-1LT FPS
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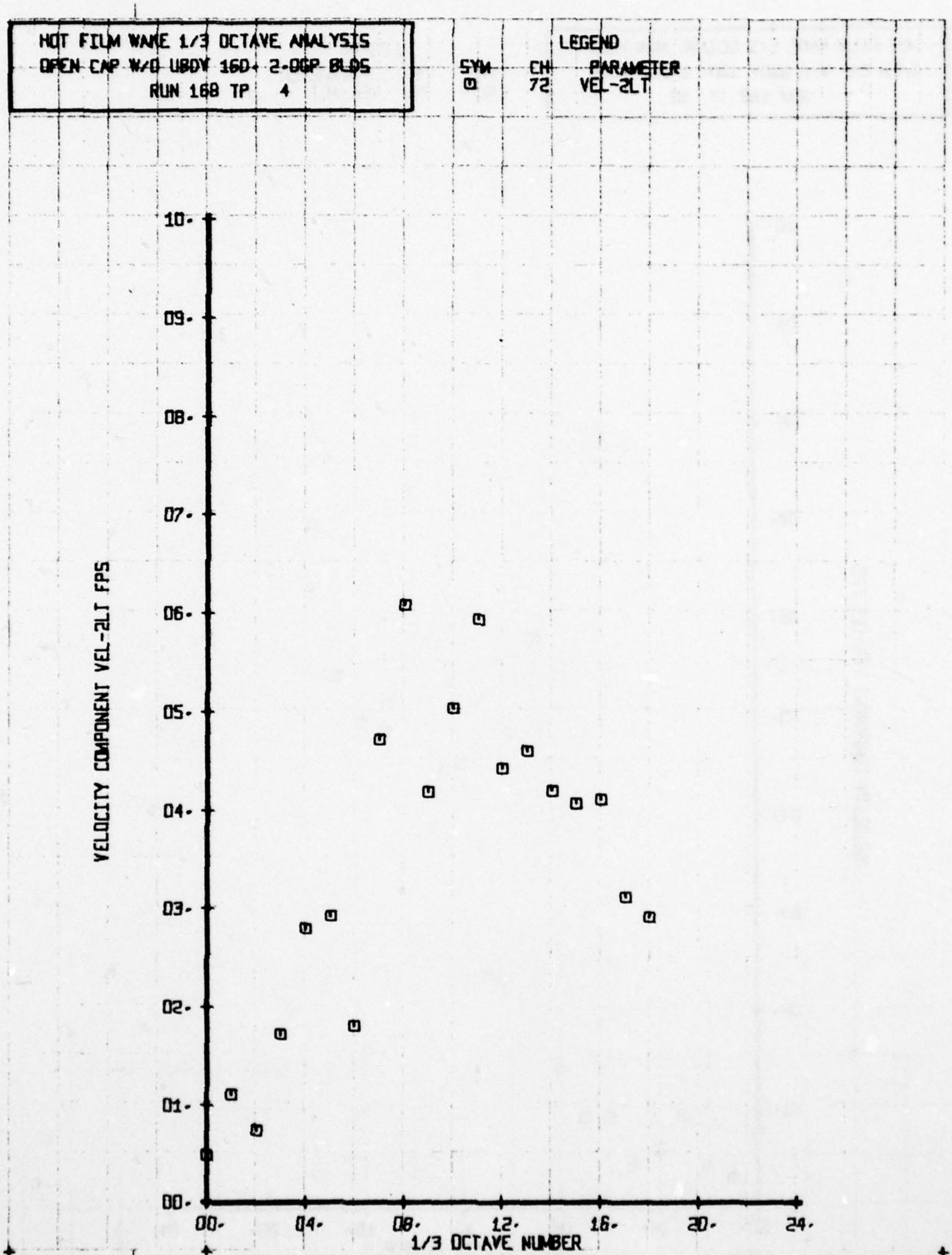
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBDY 16D+ 2-DGP BLDS
RUN 168 TP 4
LEGEND
SYM CH PARAMETER
72 VEL-2LT
VELOCITY COMPONENT VEL-2LT FPS
1/3 OCTAVE NUMBER
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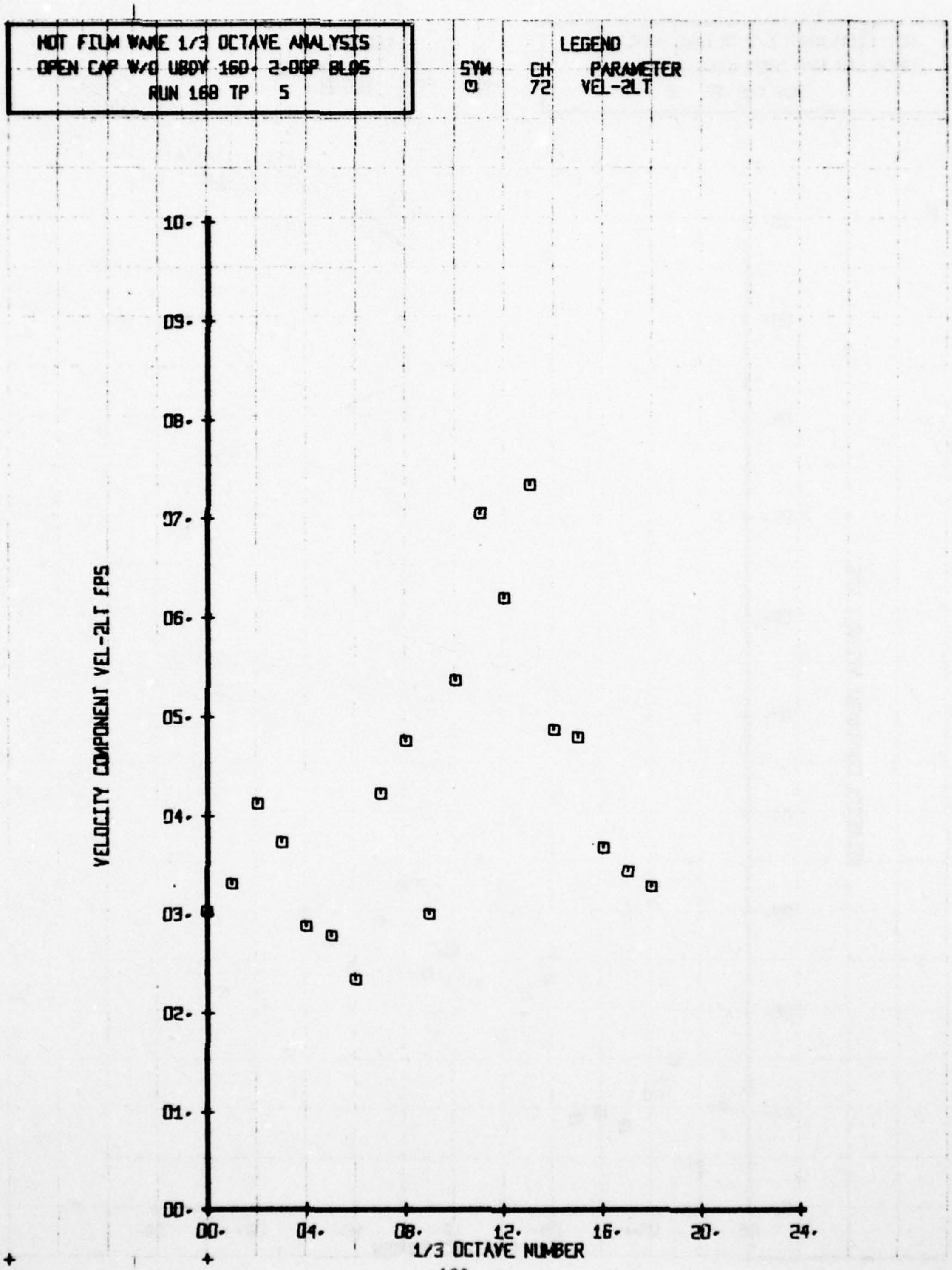
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OPEN CAP W/O UBOY 160- 2-OOP BLDS
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LEGEND
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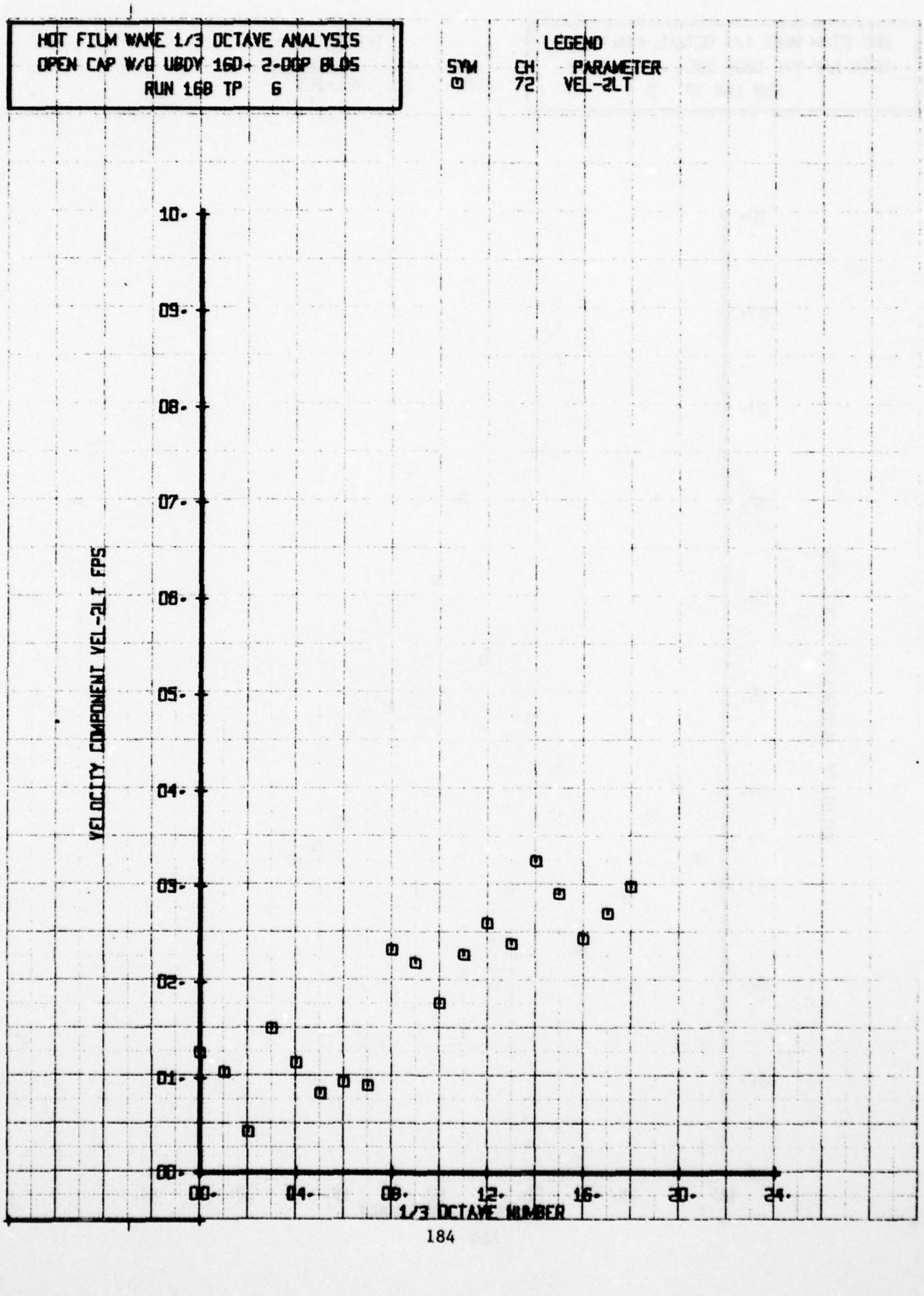
1/3 OCTAVE NUMBER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OPEN CAP W/O UBDY 16D+ 2-00P BLDS
RUN 168 TP 6
LEGEND
SYM CH PARAMETER
72 VEL-2LT
VELOCITY COMPONENT VEL-2LT FPS
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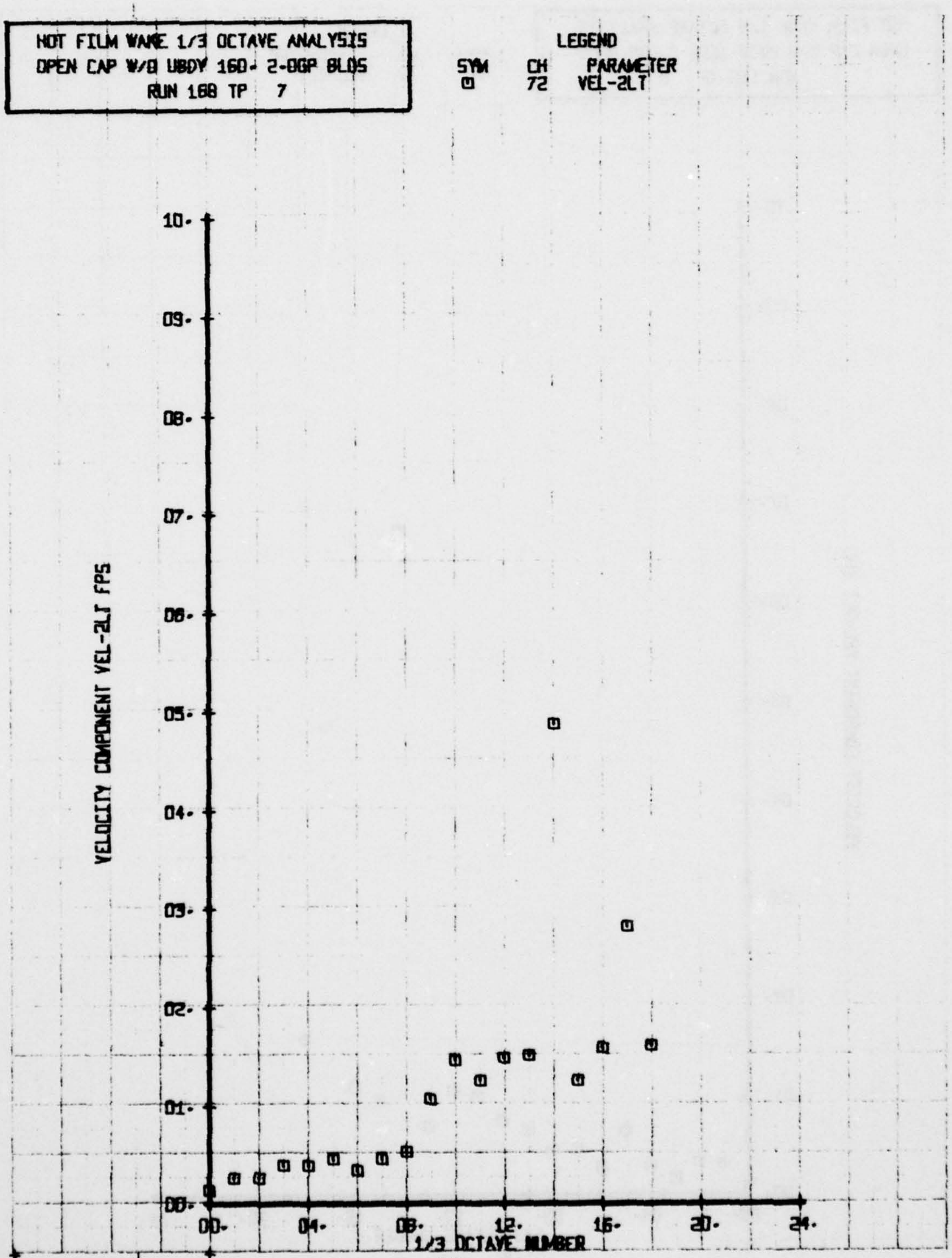
1/3 OCTAVE NUMBER



HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBDY 160- 2-OGP BLDS
RUN 168 TP 7
LEGEND
SYM CH PARAMETER
72 VEL-2LT
VELOCITY COMPONENT VEL-2LT FPS
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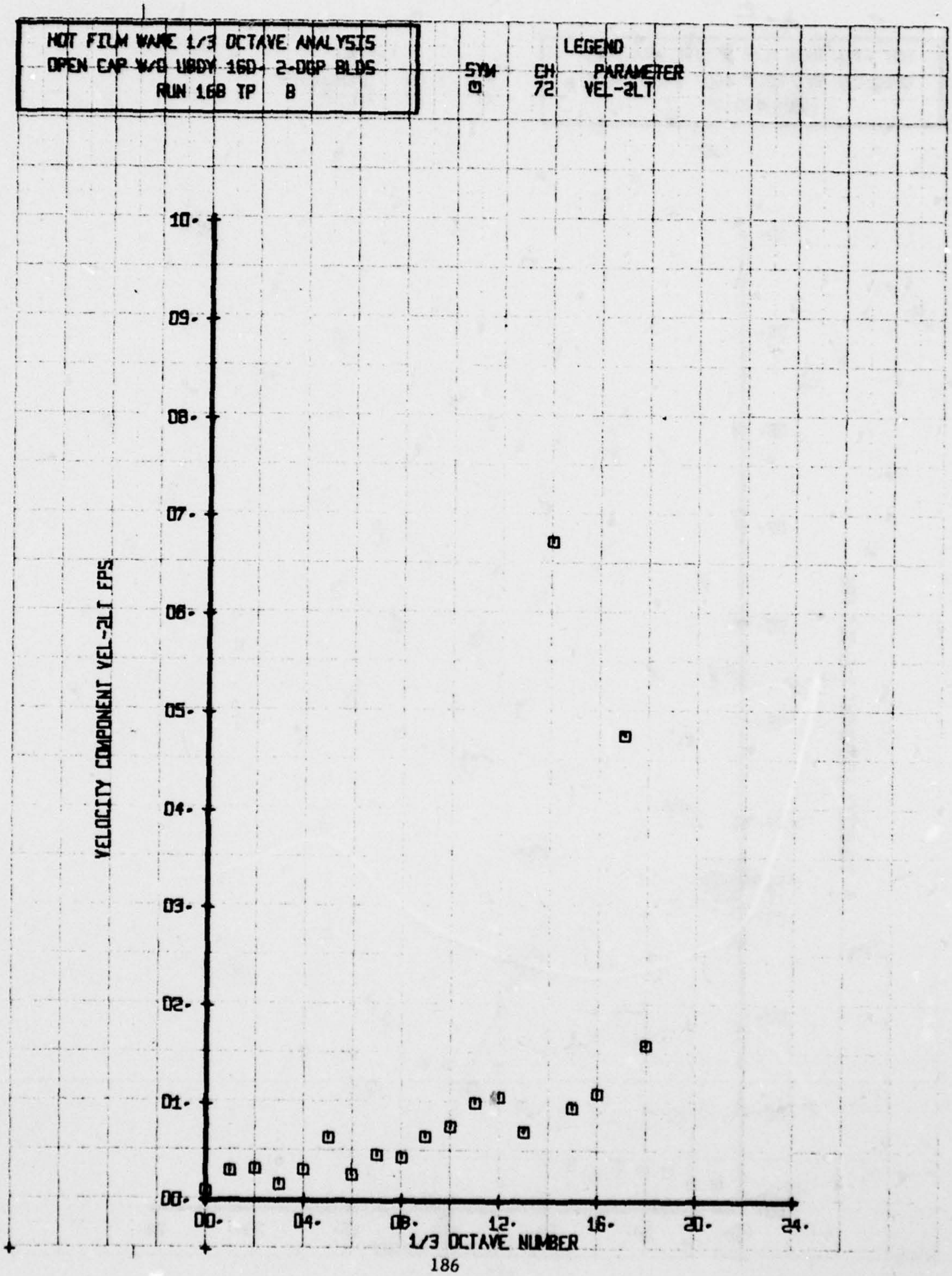
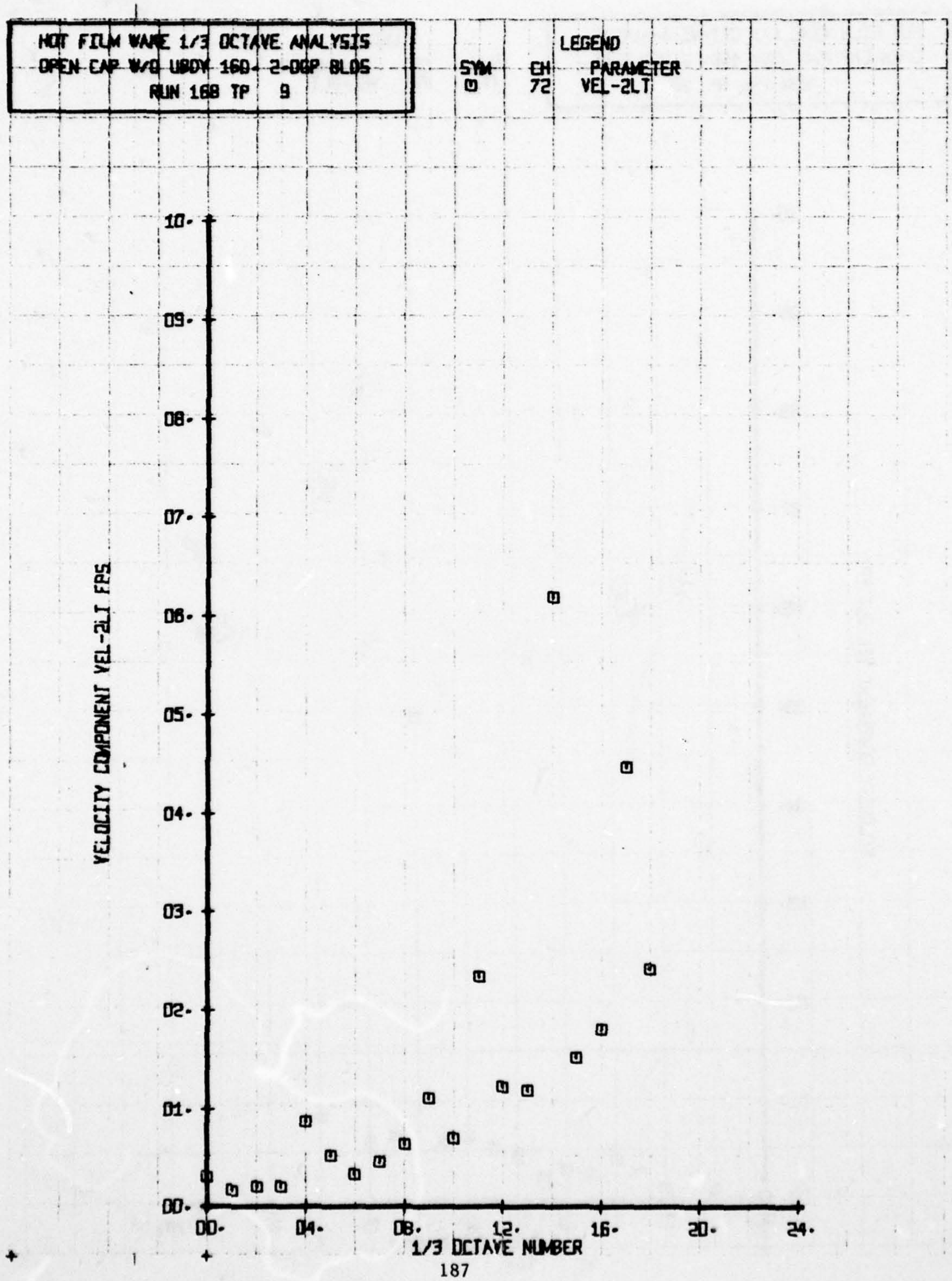
1/3 OCTAVE NUMBER



HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBDY 16D- 2-DGP BLDS
RUN 168 TP B
LEGEND
SYM CH PARAMETER
72 VEL-2LT
VELOCITY COMPONENT VEL-2LT FPS
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBDY 160. 2-DGP BLDS
RUN 168 TP 9
LEGEND
SYM CH PARAMETER
72 VEL-2LT
VELOCITY COMPONENT VEL-2LT FPS
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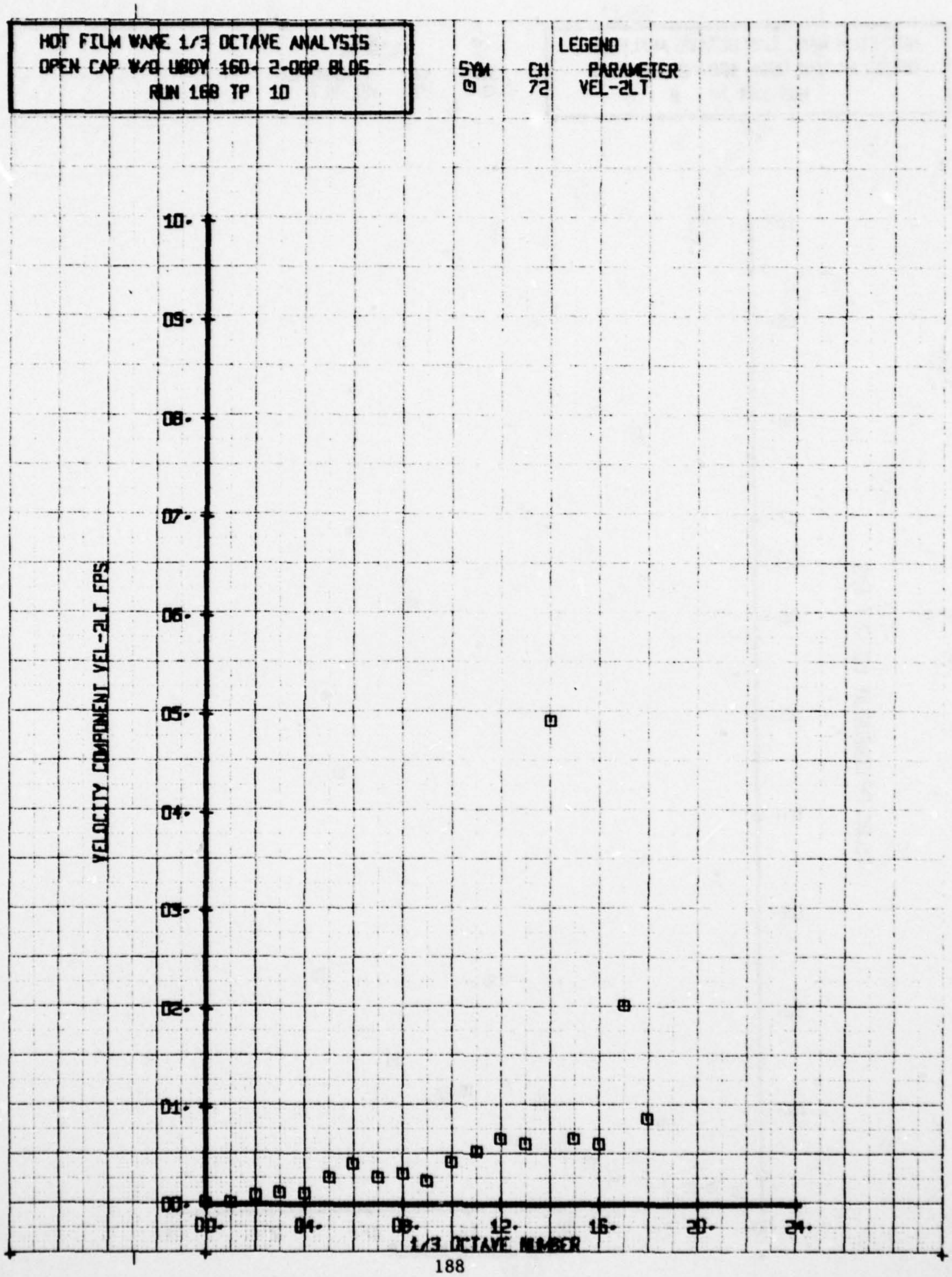
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBDY 160- 2-00P BLDS
RUN 168 TP 10
LEGEND
SYM CH PARAMETER
72 VEL-2LT
VELOCITY COMPONENT VEL-2LT FPS
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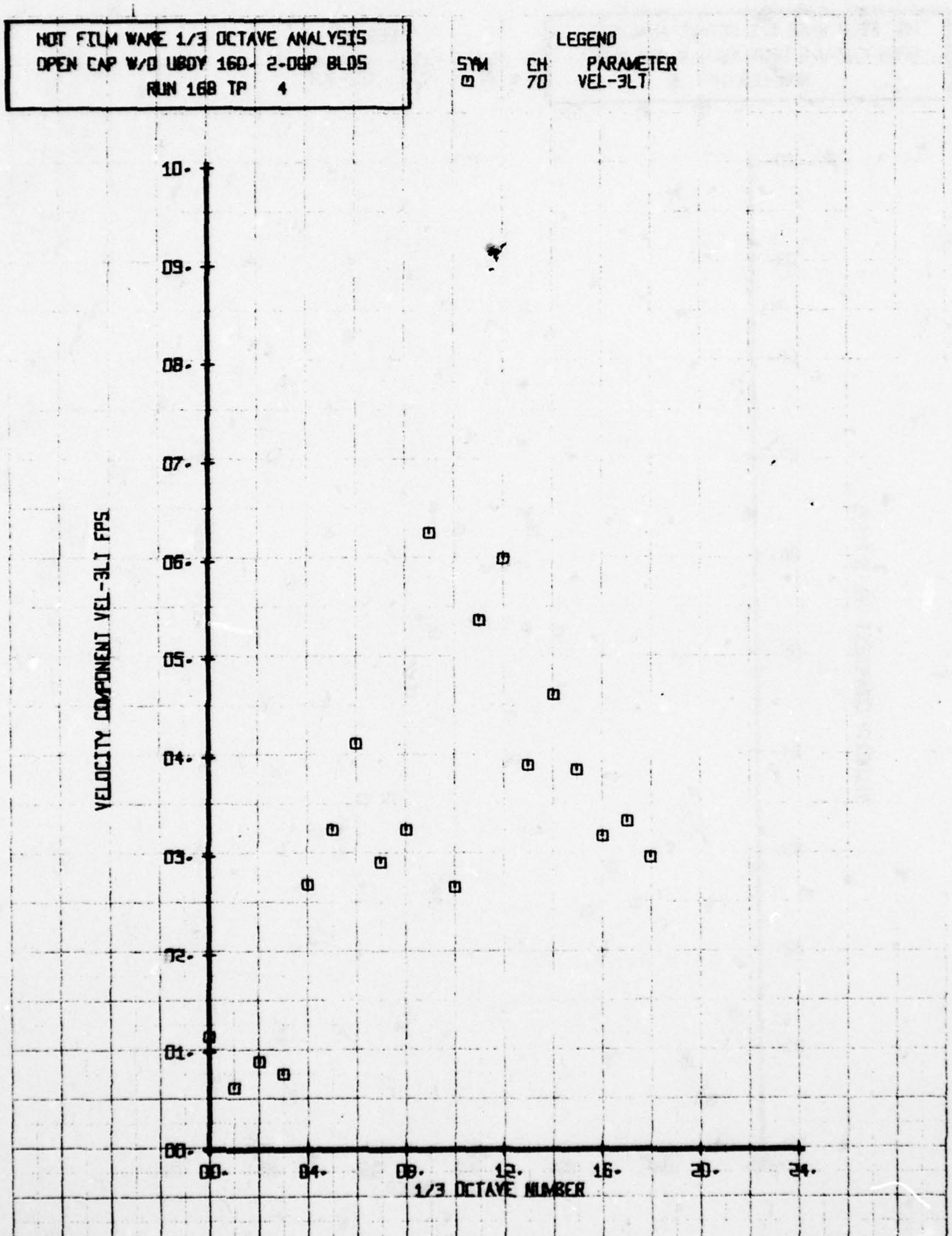
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBOY 160- 2-00P BLDS
RUN 168 TP 4
LEGEND
SYM CH PARAMETER
70 VEL-3LT
VELOCITY COMPONENT VEL-3LT FPS
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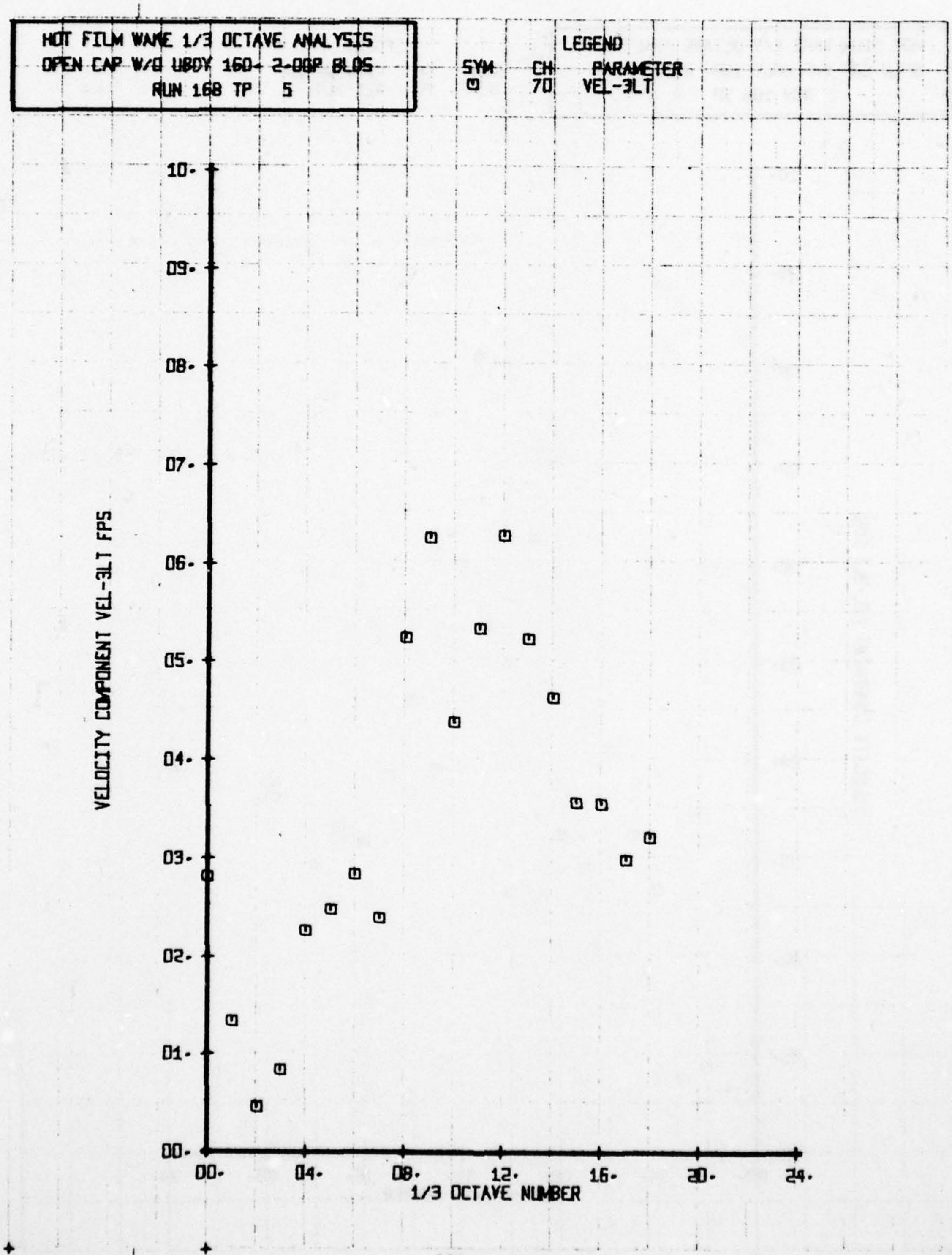
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBDY 160- 2-DDP BLDS
RUN 168 TP 5
LEGEND
SYM CH PARAMETER
70 VEL-3LT
VELOCITY COMPONENT VEL-3LT FPS
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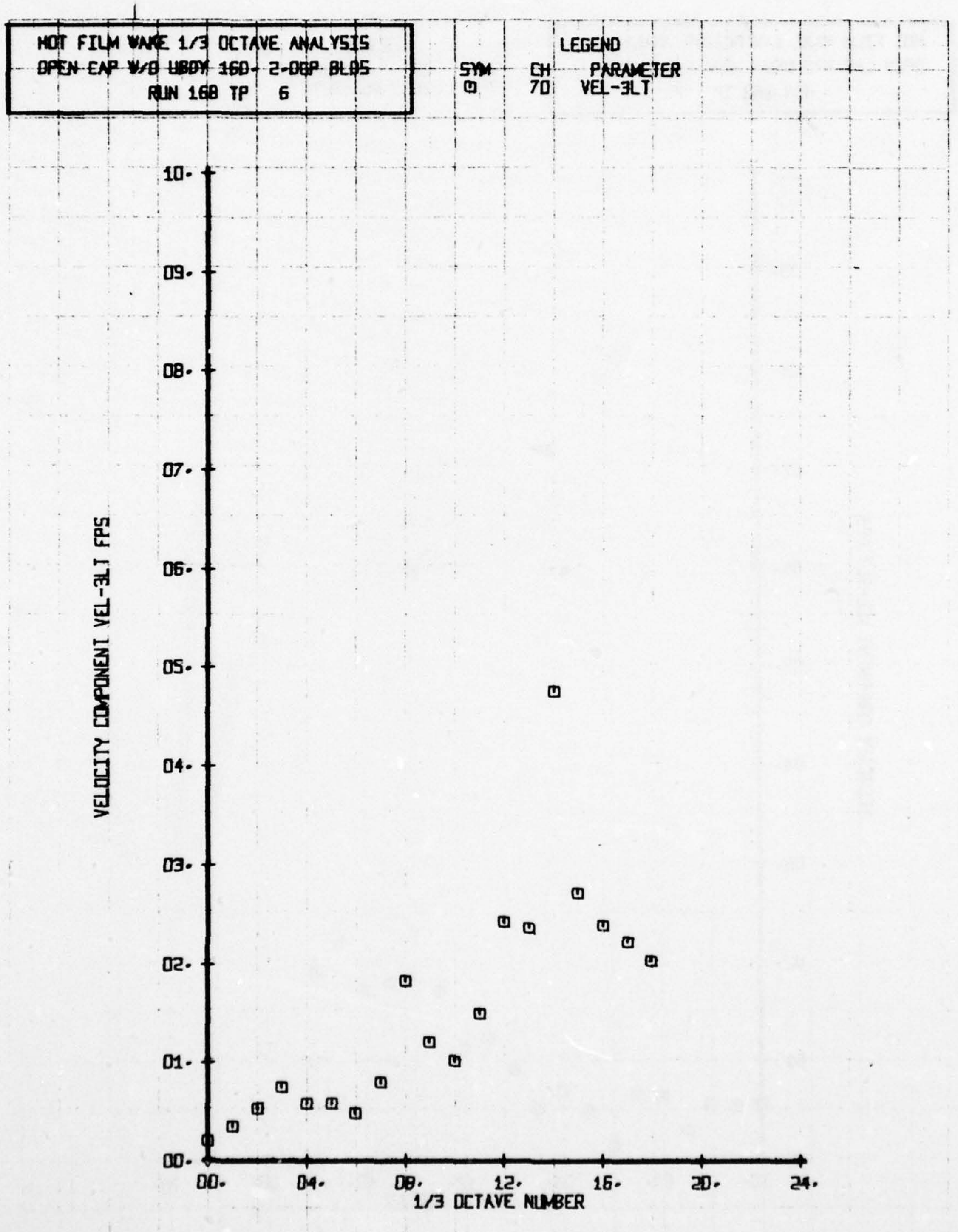
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBOY 160- 2-DGP BLDS
RUN 168 TP 6
LEGEND
SYM CH PARAMETER
70 VEL-3LT
VELOCITY COMPONENT VEL-3LT FPS
1/3 OCTAVE NUMBER
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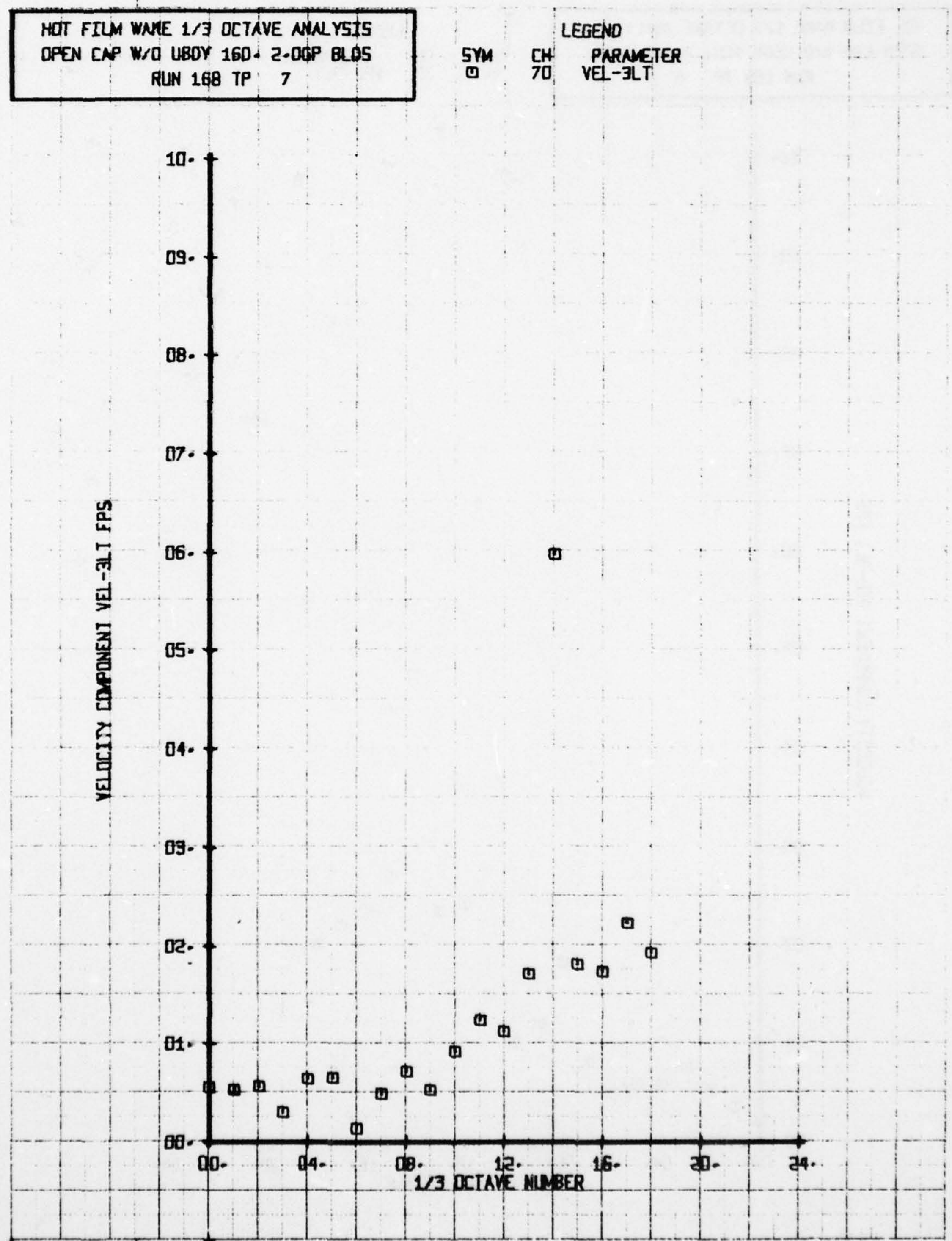
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBOY 160. 2-00P BLDS
RUN 168 TP 7
LEGEND
SYM CH PARAMETER
70 VEL-3LT
VELOCITY COMPONENT VEL-3LT FPS
1/3 OCTAVE NUMBER
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INTERACTIONAL AERODYNAMICS OF THE SINGLE ROTOR HELICOPTER CONFI--ETC(U)

SEP 78 P F SHERIDAN DAAJ02-77-C-0020

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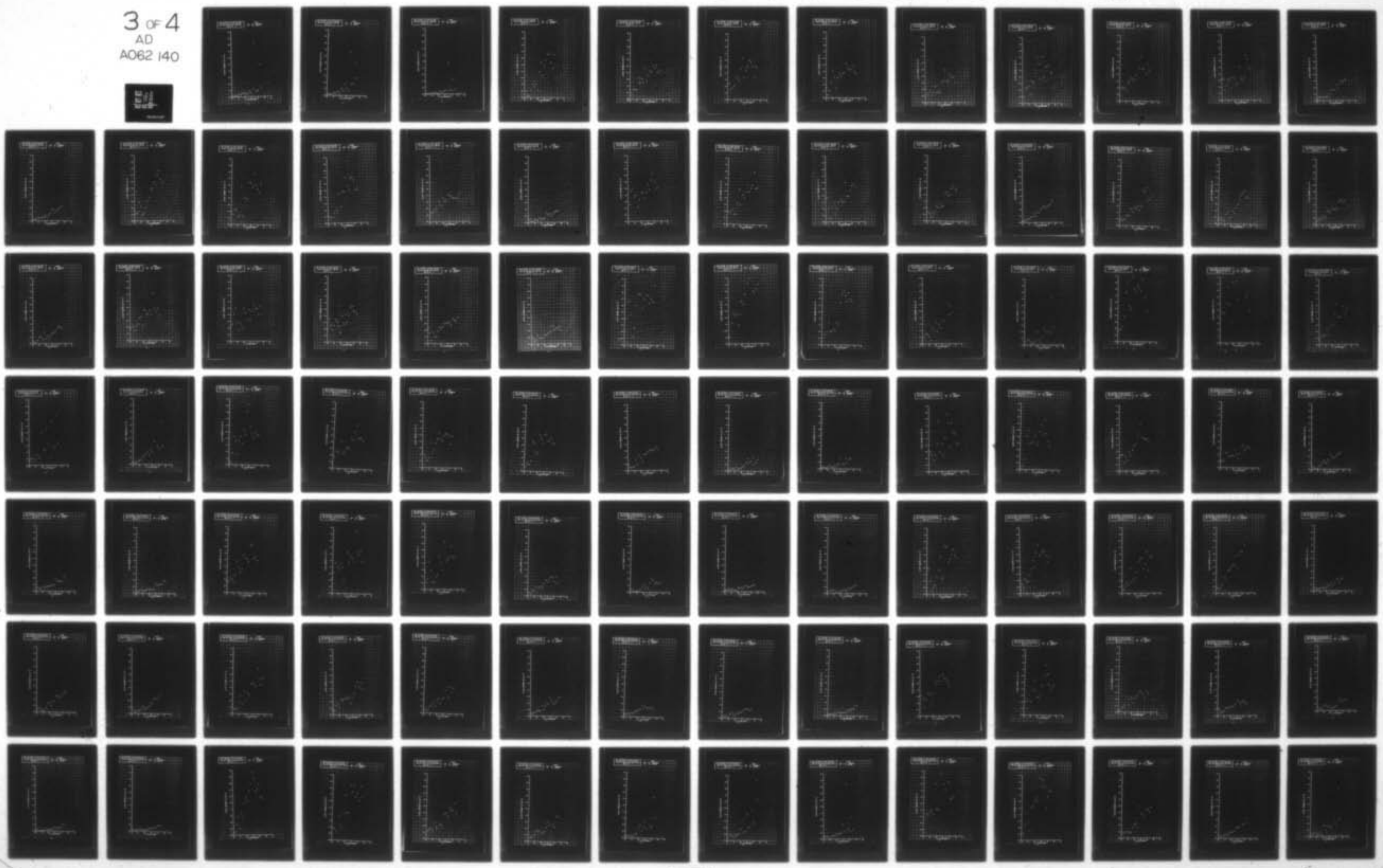

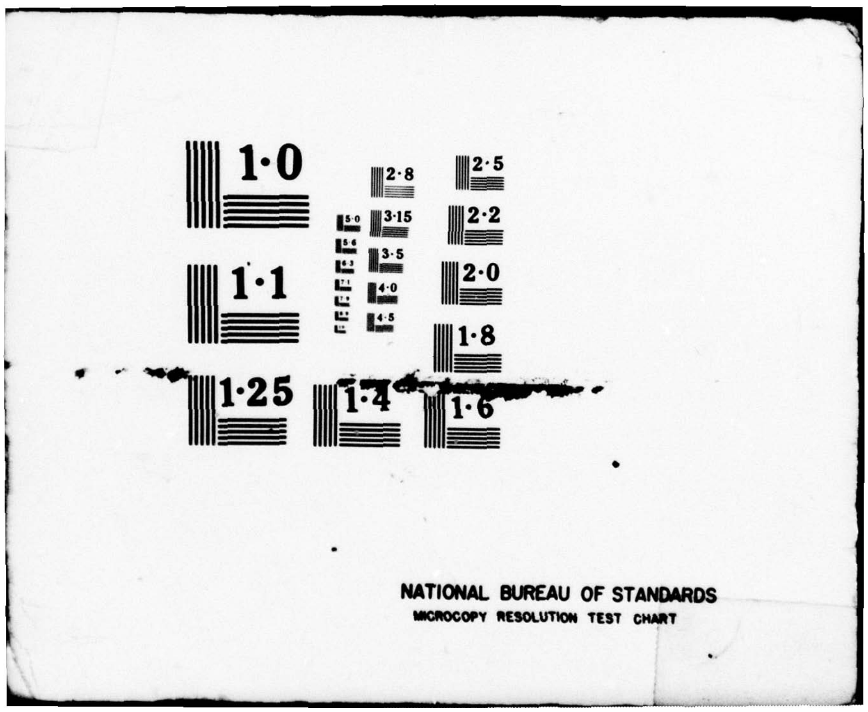
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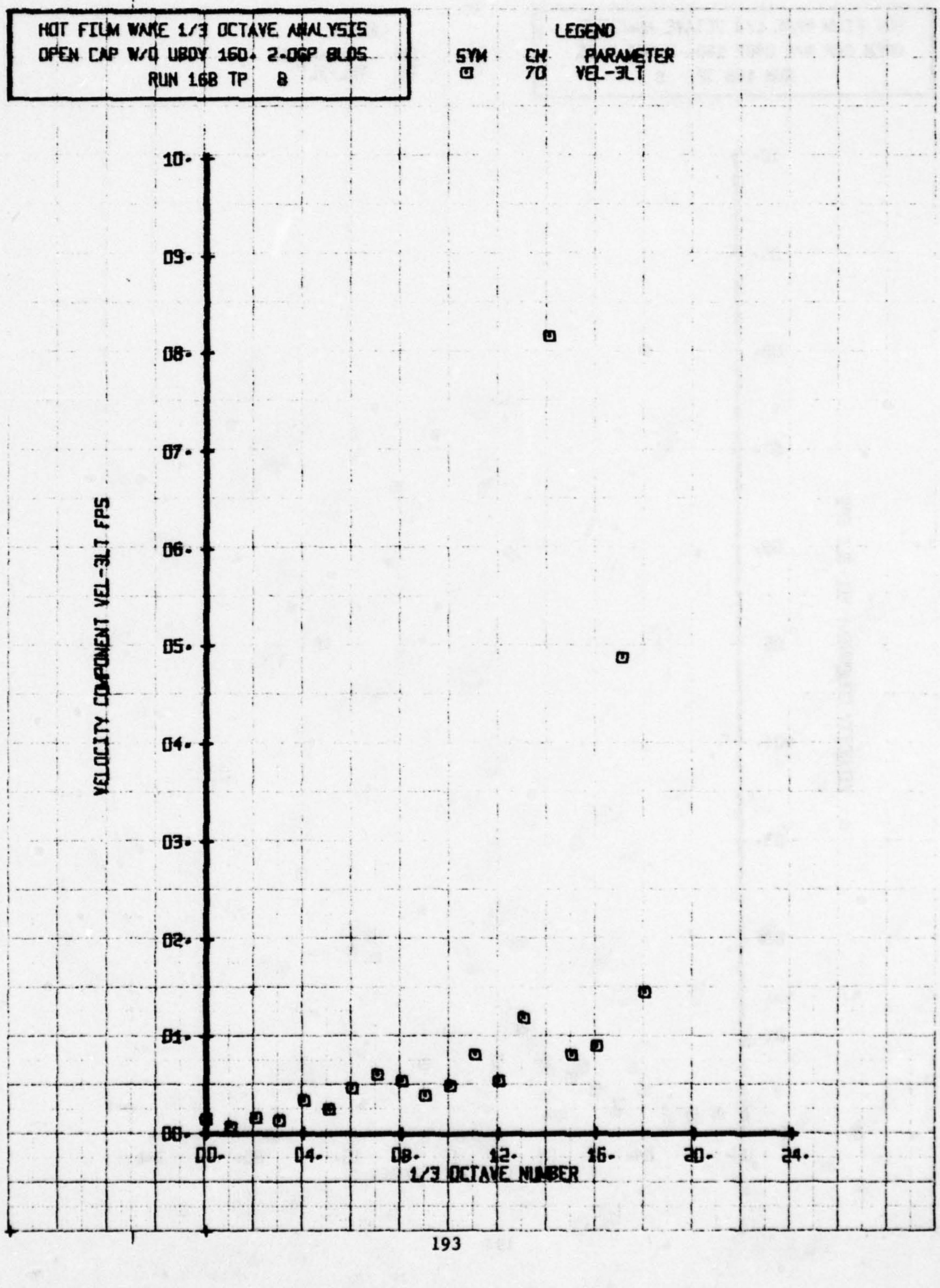
NATIONAL BUREAU OF STANDARDS
MICROCOPY RESOLUTION TEST CHART



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OPEN CAP W/O UBOY 160+ 2-OGP BLDS
RUN 16B TP 8
LEGEND
SYM CH PARAMETER
70 VEL-3LT
VELOCITY COMPONENT VEL-3LT FPS
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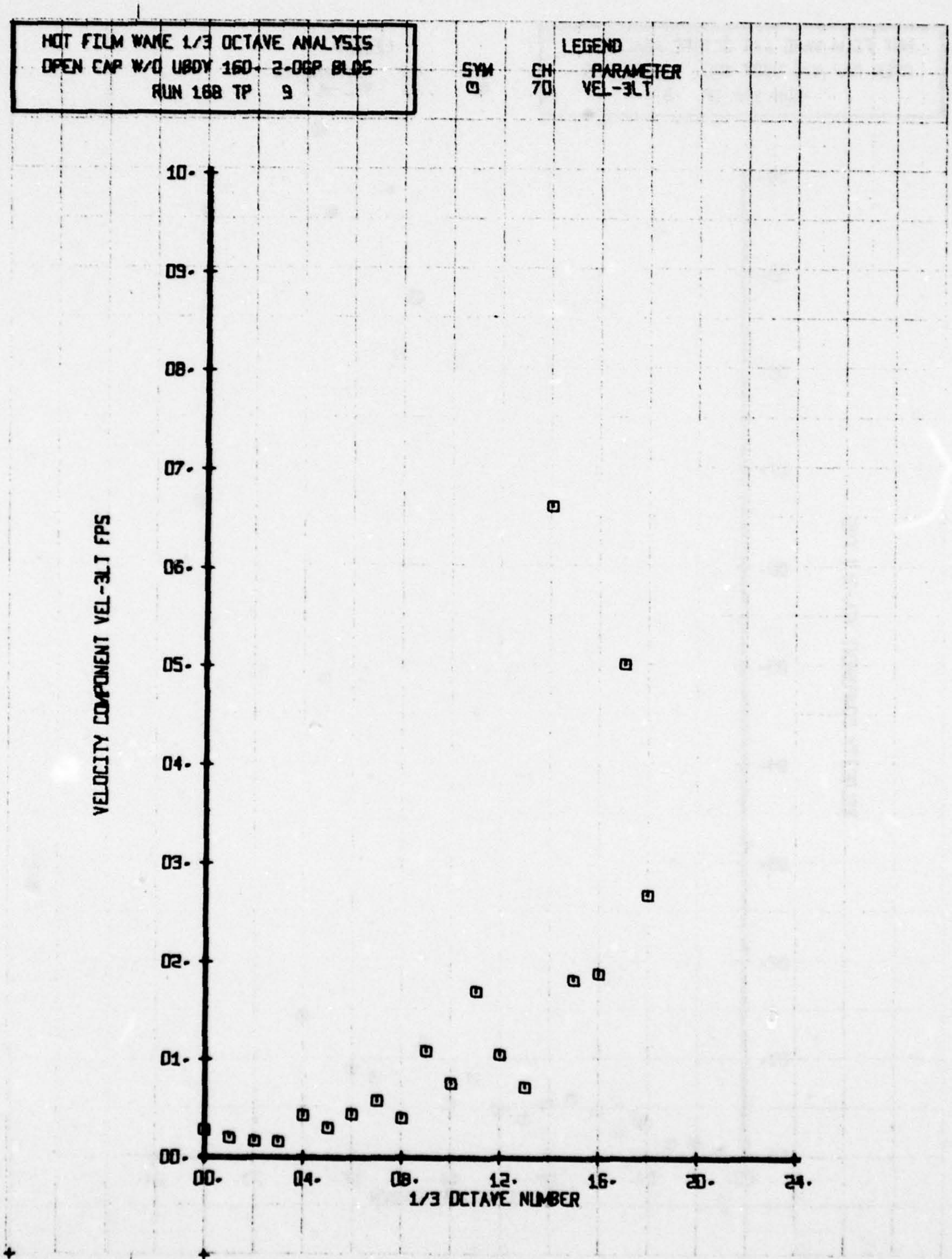
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBDY 16D- 2-DGP BLDS
RUN 188 TP 9
LEGEND
SYM CH PARAMETER
70 VEL-3LT
VELOCITY COMPONENT VEL-3LT FPS
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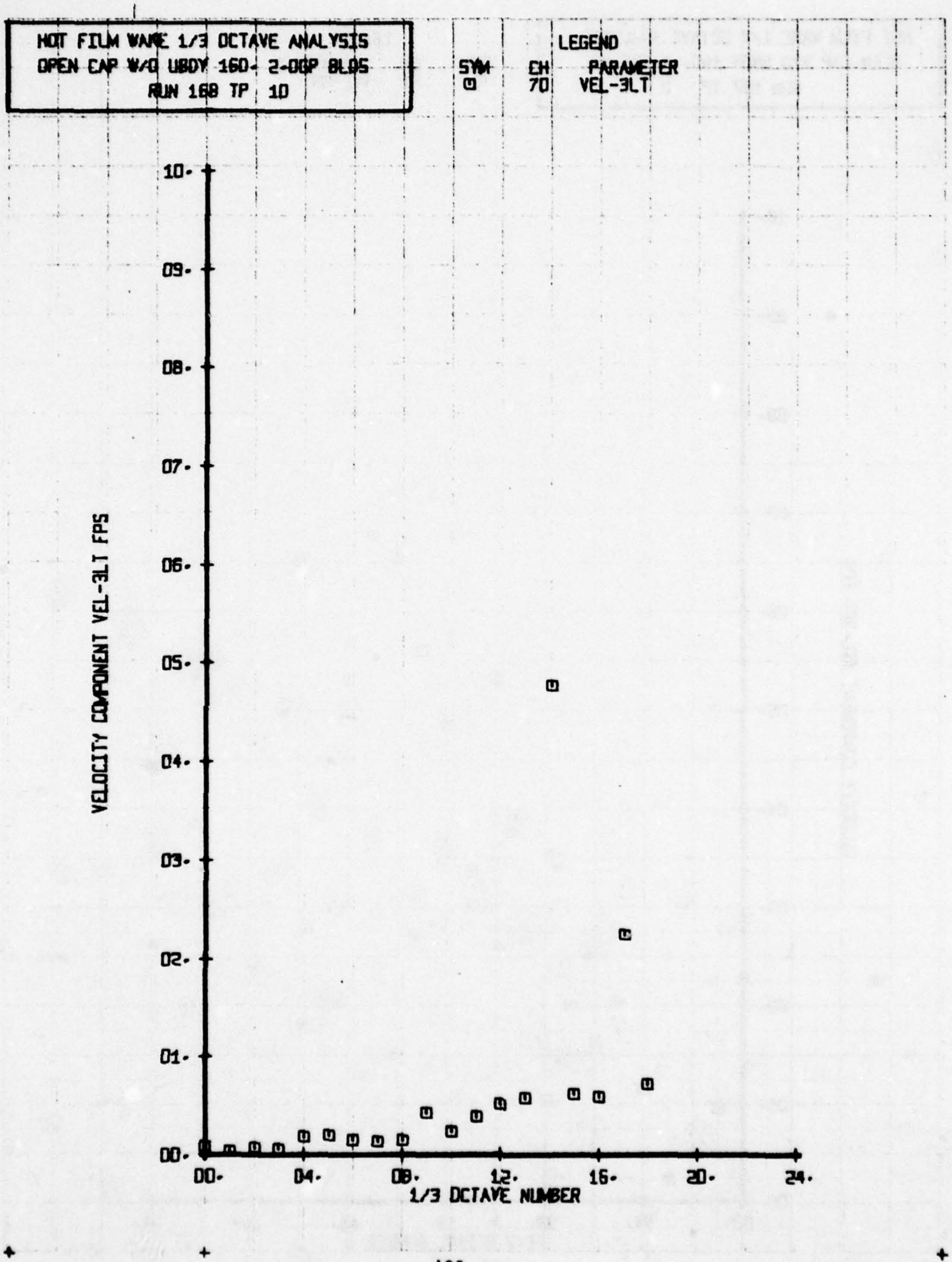

HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBDY 160- 2-OGP BLDS
RUN 168 TP 10
LEGEND
SYM CH PARAMETER
70 VEL-3LT
VELOCITY COMPONENT VEL-3LT FPS
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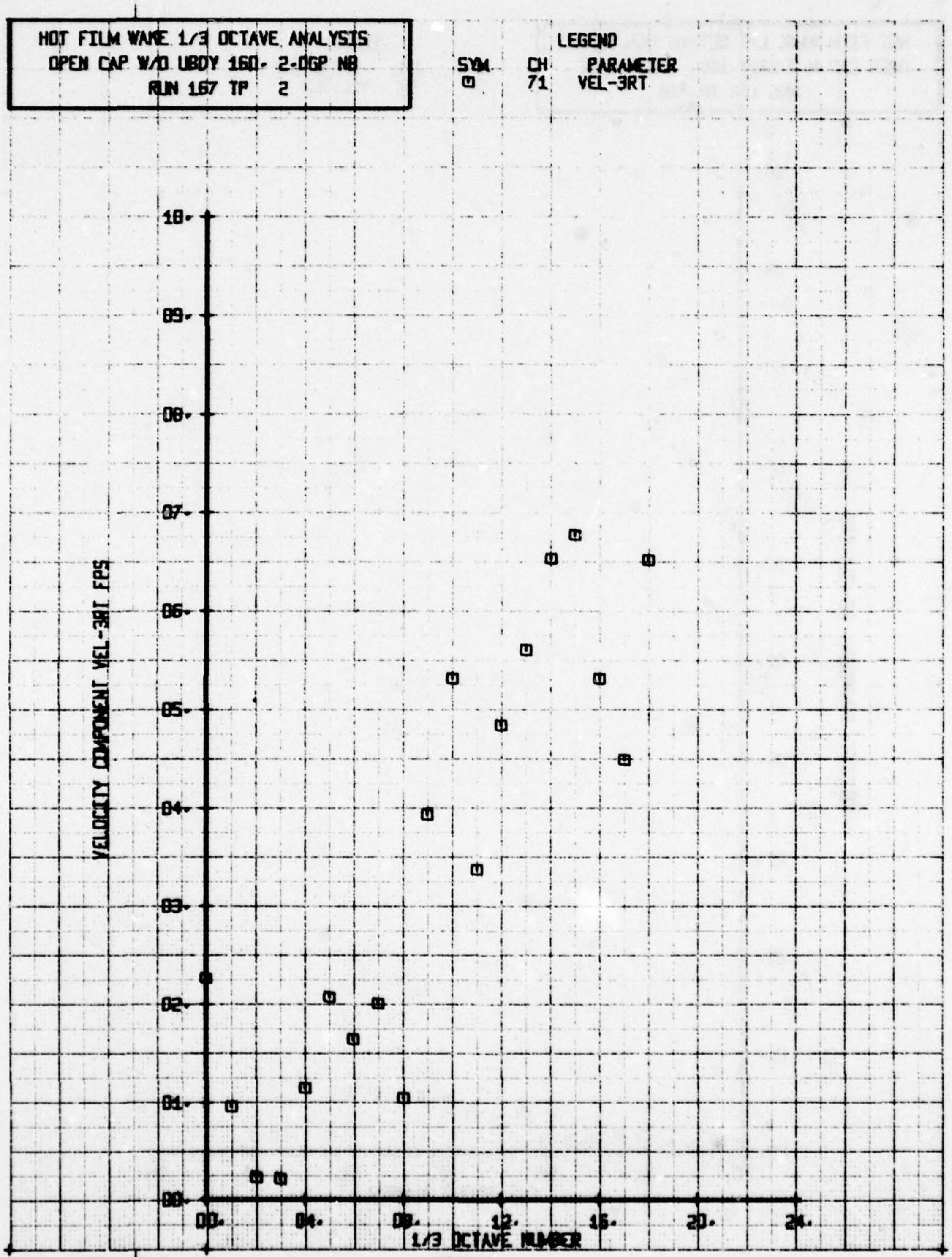

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OPEN CAP W/O UBDY 160- 2-DGP NB
RUN 167 TP 2
LEGEND
SYM CH PARAMETER
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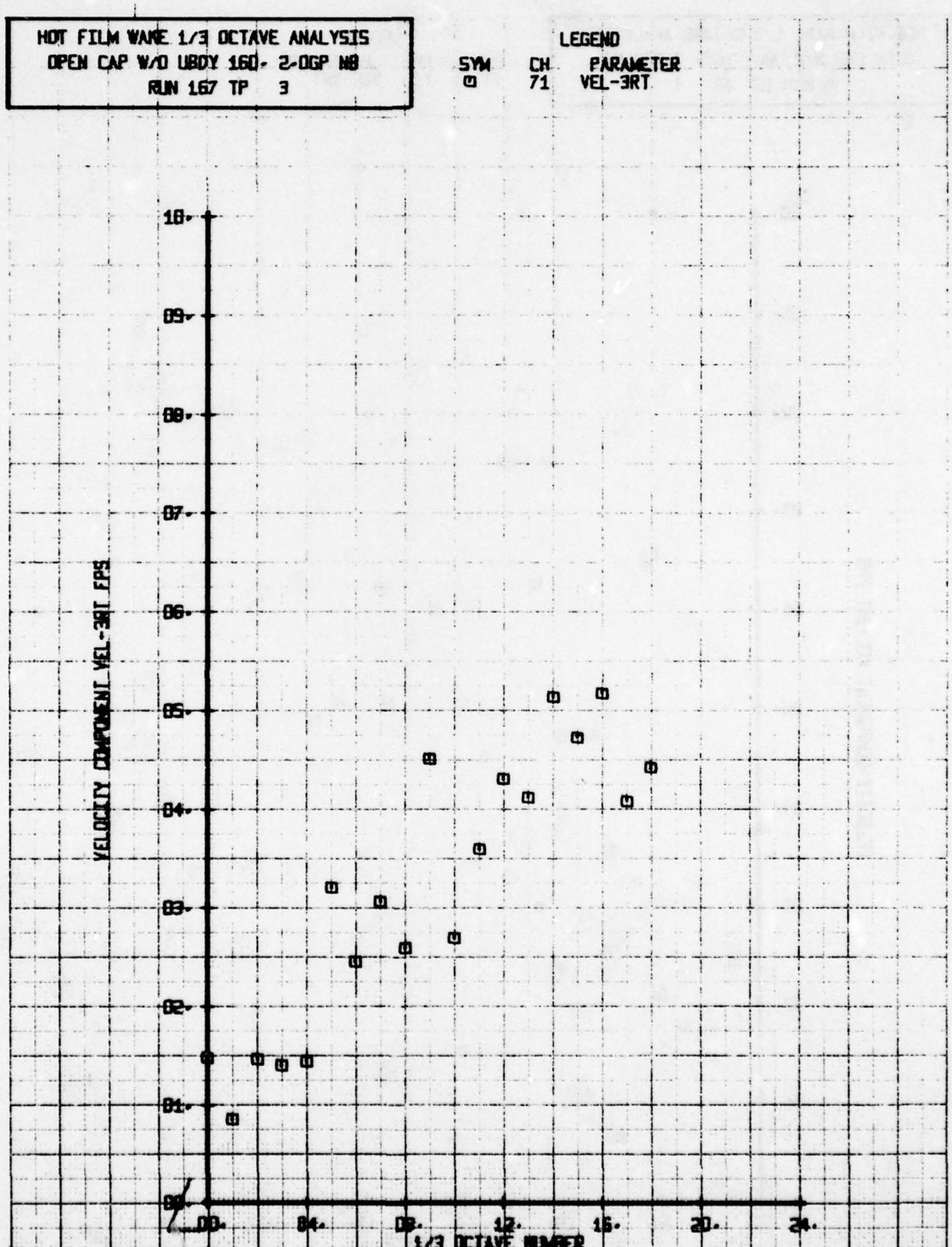
VELOCITY COMPONENT VEL-3RT FPS
1/3 OCTAVE NUMBER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OPEN CAP W/O UBDY 160, 2-OGP N8
RUN 167 TP 3
LEGEND
SYM CH PARAMETER
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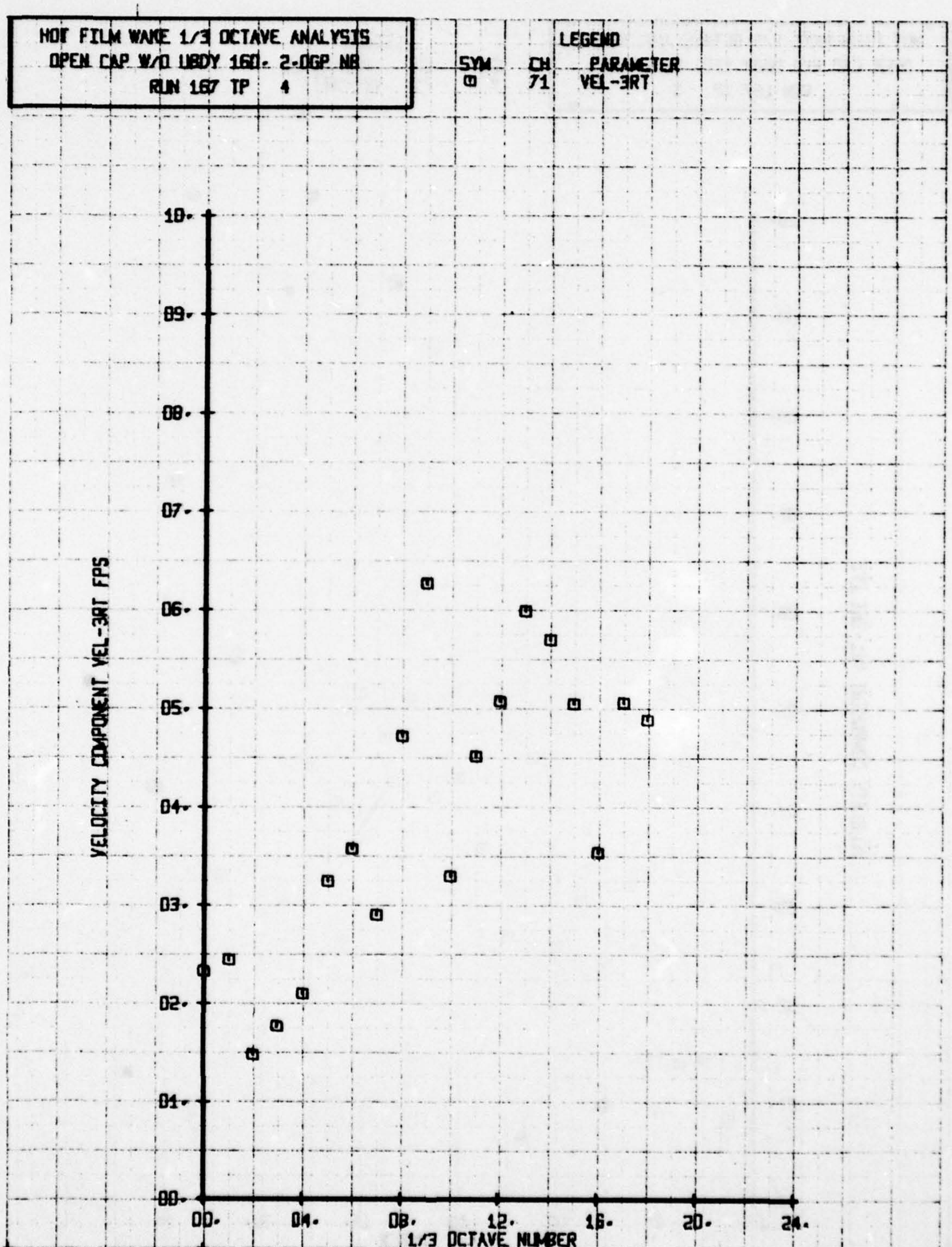
VELOCITY COMPONENT VEL-3RT FPS
1/3 OCTAVE NUMBER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OPEN CAP W/O UBDY 160. 2-OGP NB
RUN 167 TP 4
LEGEND
SYM CH PARAMETER
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VELOCITY COMPONENT VEL-3RT FPS
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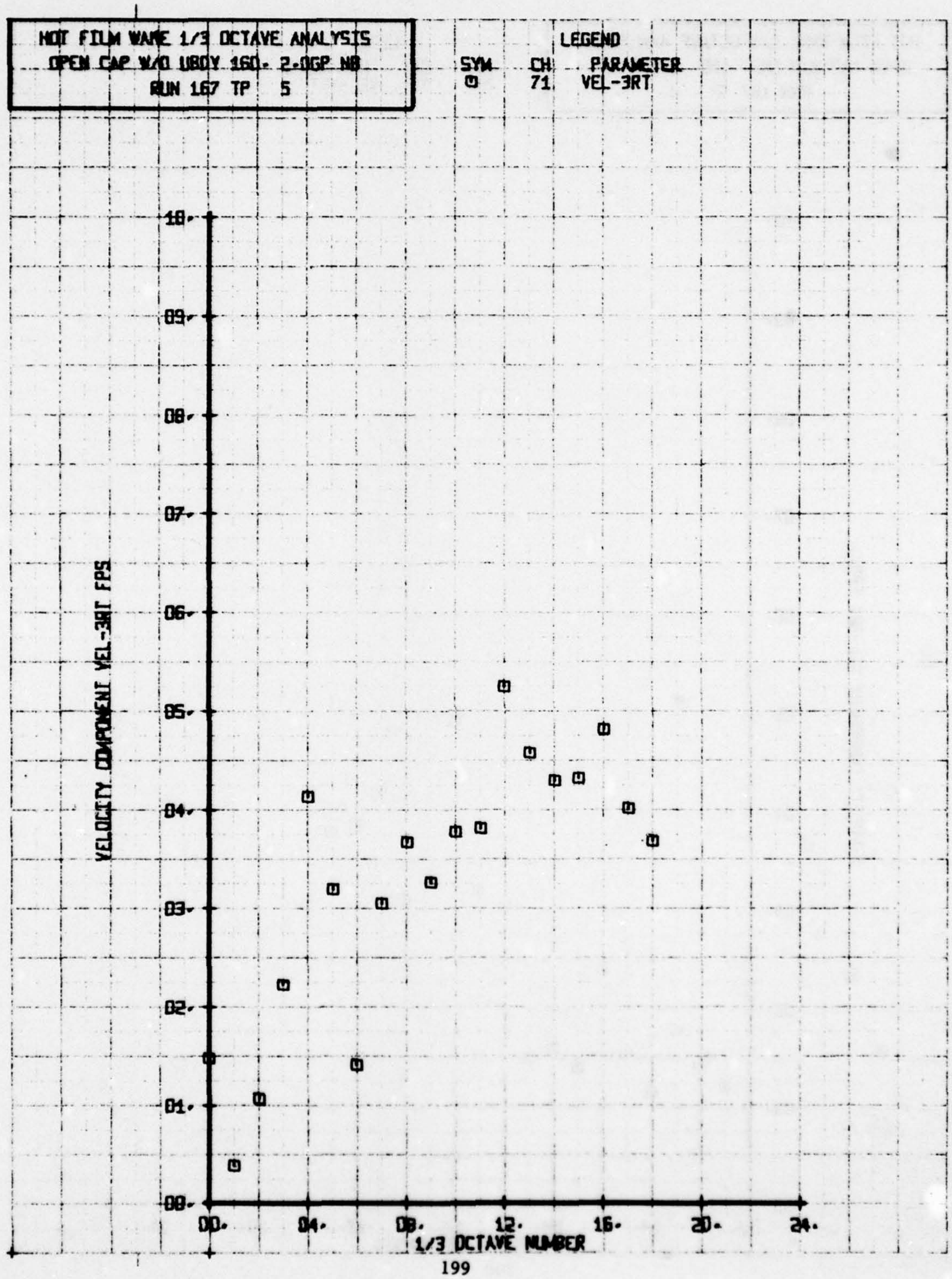
1/3 OCTAVE NUMBER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OPEN CAP W/O UBDY 160. 2.0GP NB
RUN 167 TP 5
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
1/3 OCTAVE NUMBER
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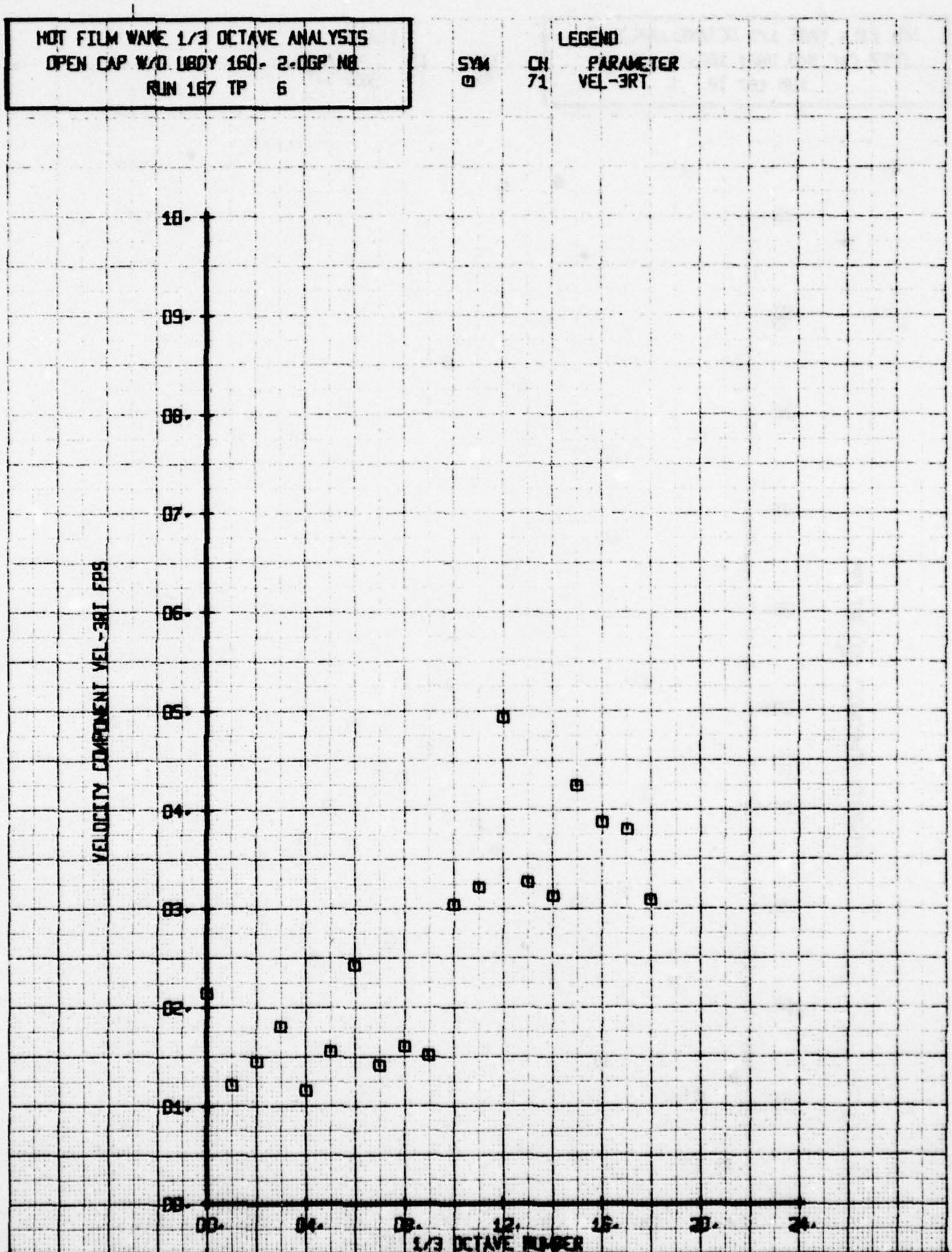
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OPEN CAP W/O UBDY 160. 2.0GP NB
RUN 167 TP 6
LEGEND
SYM CH PARAMETER
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VELOCITY COMPONENT VEL-3RT FPS
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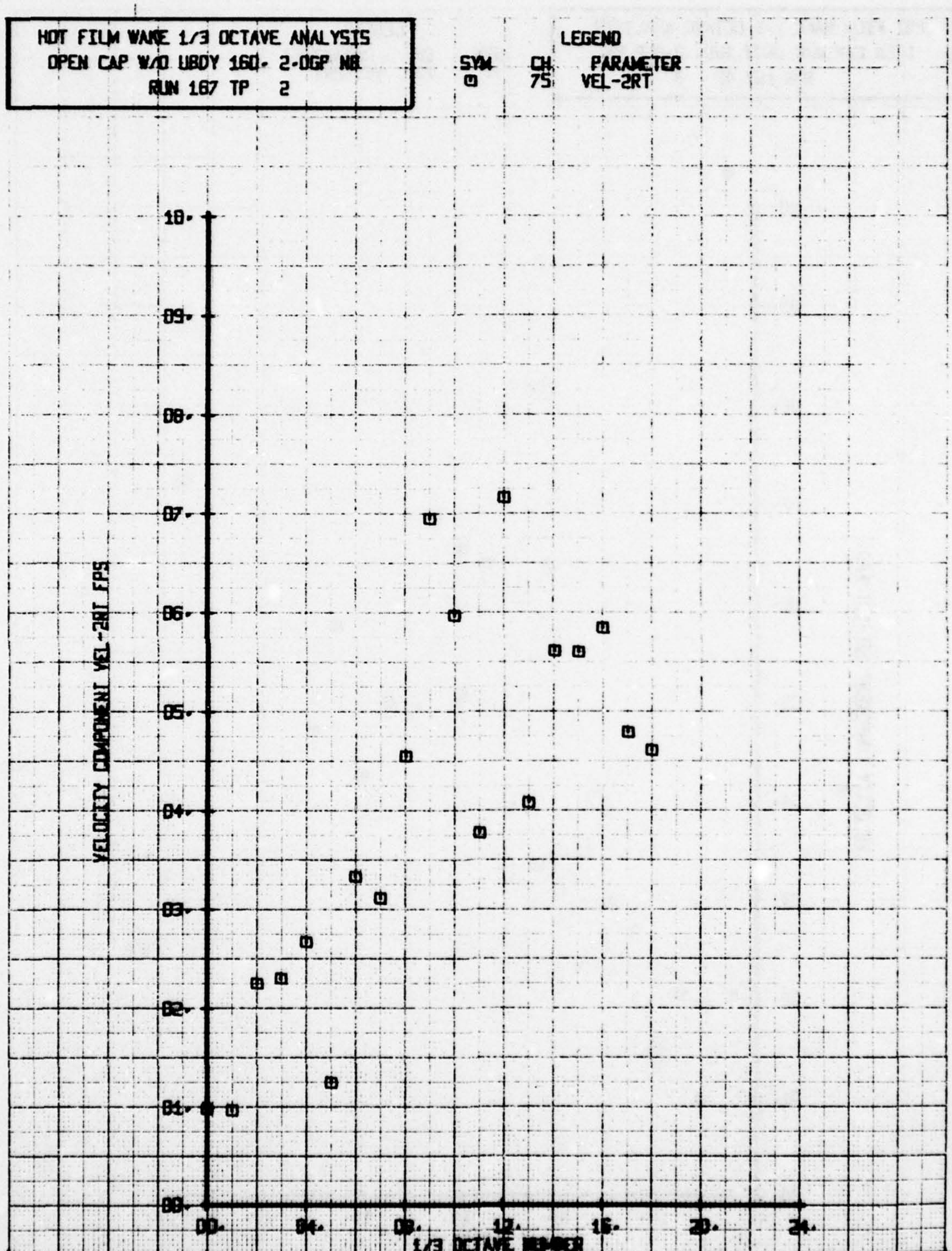
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OPEN CAP W/O UBOY 160. 2-OGP NB
RUN 167 TP 2
LEGEND
SYM CH. PARAMETER
75 VEL-2RT
VELOCITY COMPONENT VEL-2RT FPS
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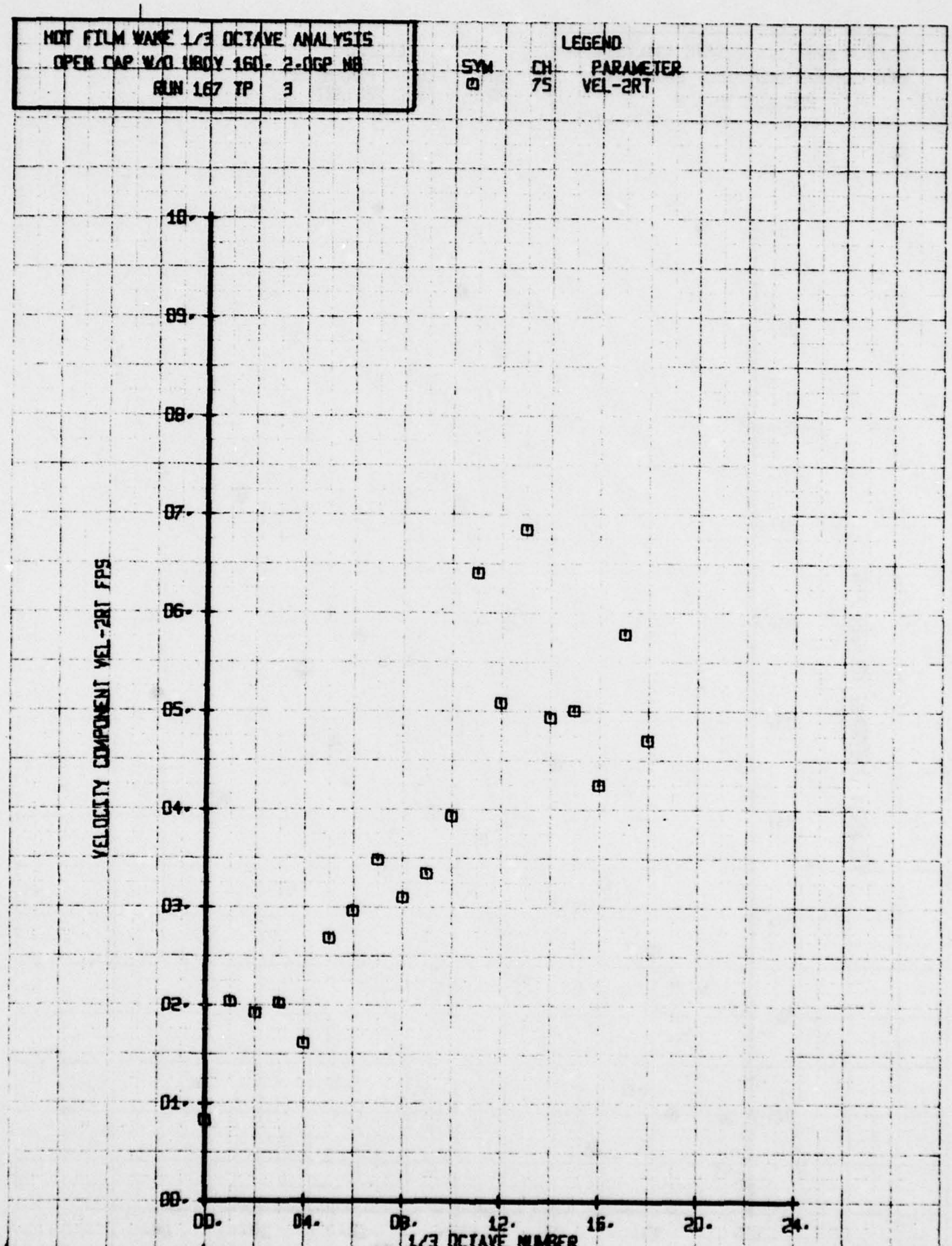
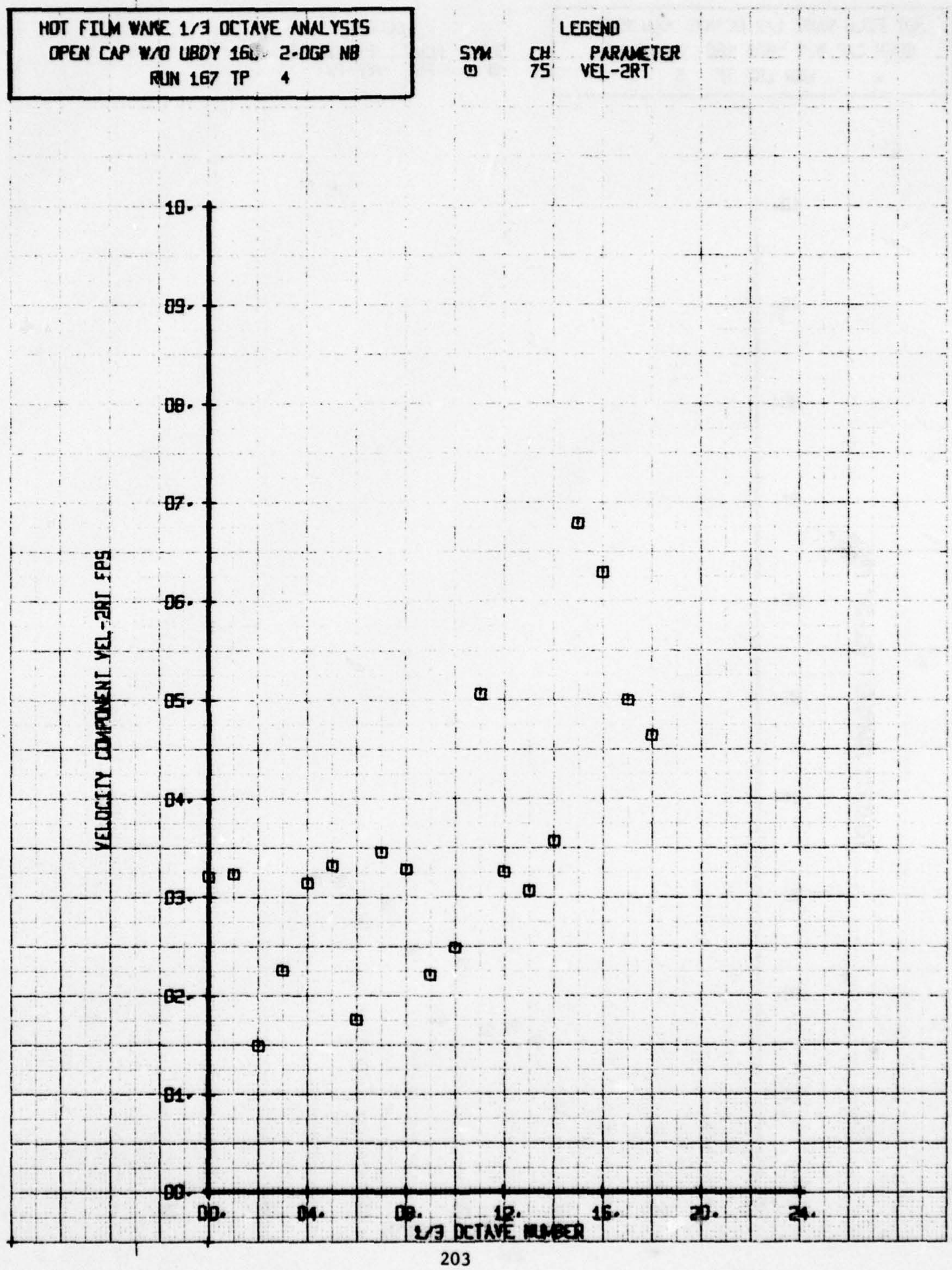
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBOY 160. 2.0GP NB
RUN 167 TP 3
LEGEND
SYM CH PARAMETER
75 VEL-2RT
VELOCITY COMPONENT VEL-2RT FPS
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBDY 16L 2-DGP NB
RUN 167 TP 4
LEGEND
SYM CH PARAMETER
75 VEL-2RT
VELOCITY COMPONENT VEL-2RT FPS
1/3 OCTAVE NUMBER
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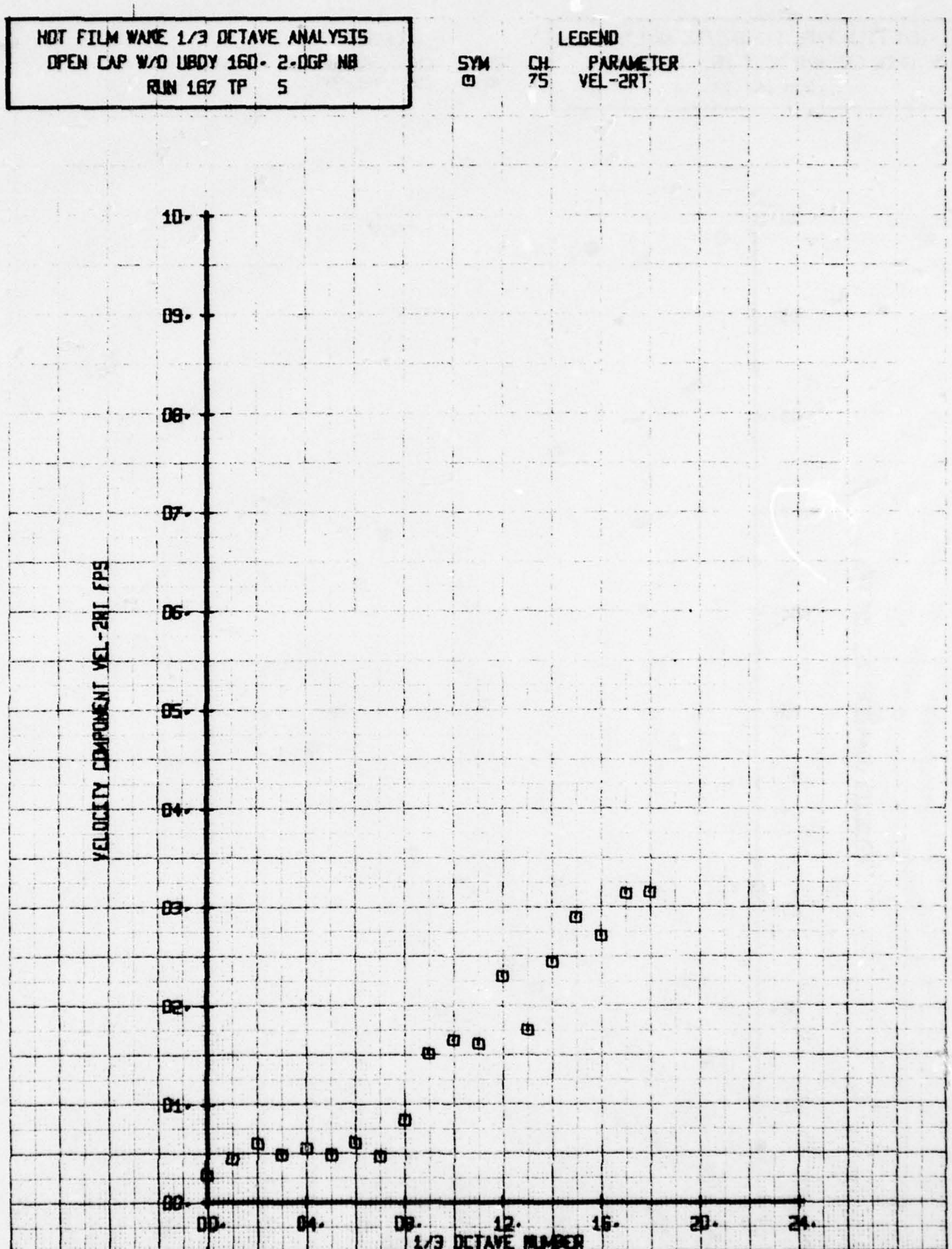

HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBDY 160. 2.0GP NB
RUN 167 TP 5
LEGEND
SYM CH PARAMETER
75 VEL-2RT
VELOCITY COMPONENT VEL-2RT FPS
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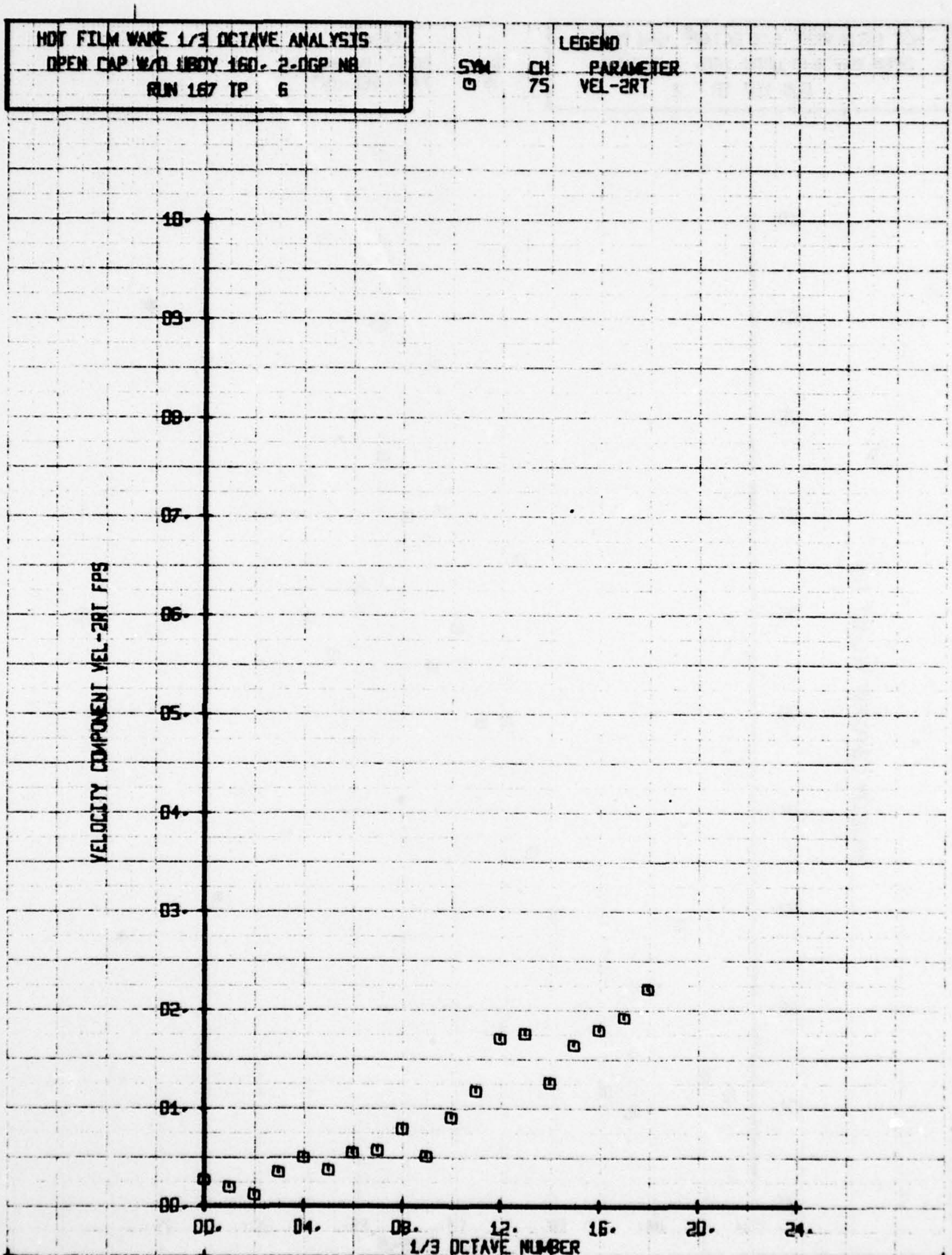
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBOY 160. 2-DGP NB
RUN 167 TP 6
LEGEND
SYM CH PARAMETER
75 VEL-2RT
VELOCITY COMPONENT VEL-2RT FPS
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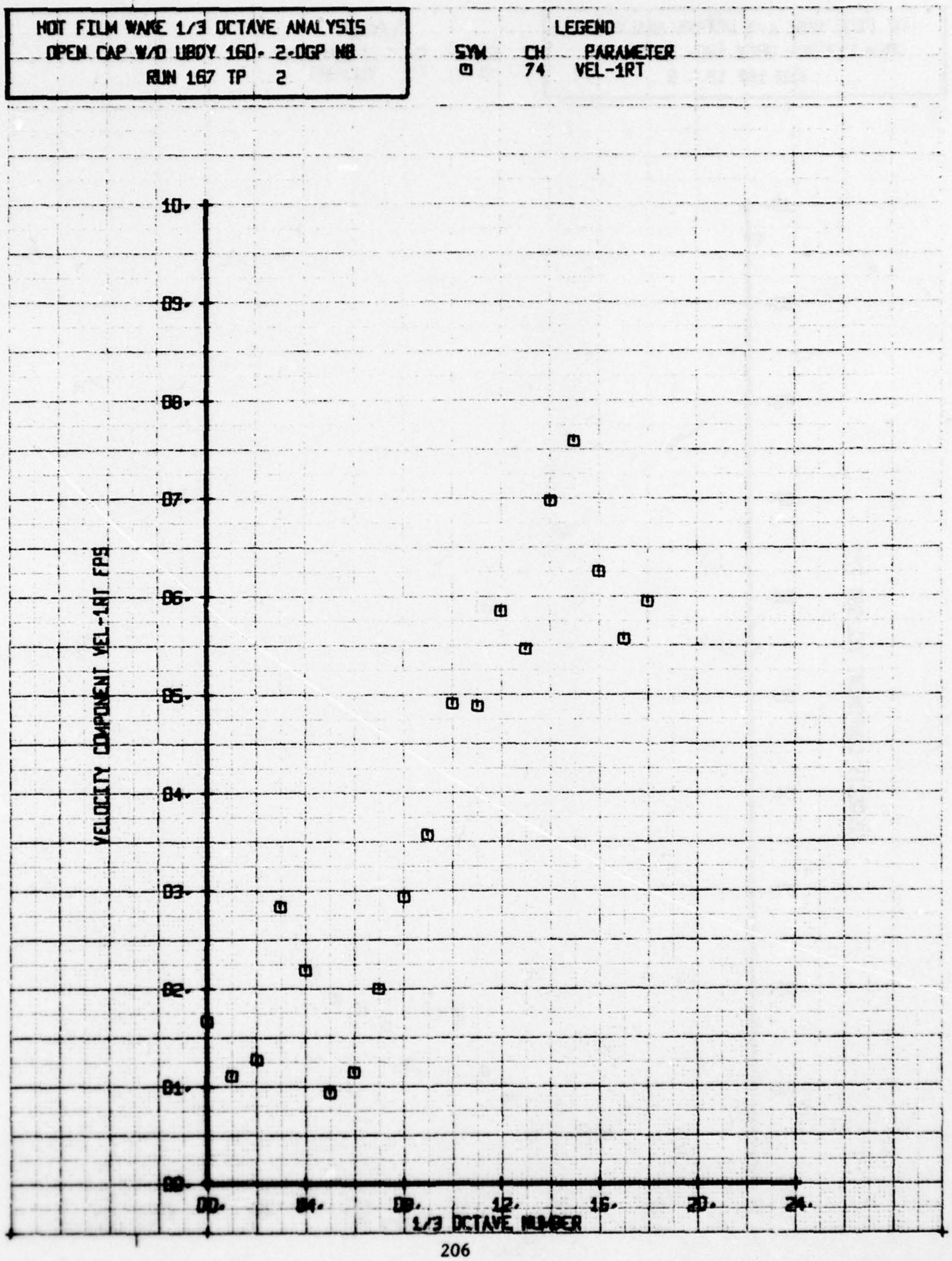
1/3 OCTAVE NUMBER



HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBOY 160- 2-0GP NB
RUN 167 TP 2
LEGEND
SYM CH PARAMETER
74 VEL-1RT
VELOCITY COMPONENT VEL-1RT FPS
1/3 OCTAVE NUMBER

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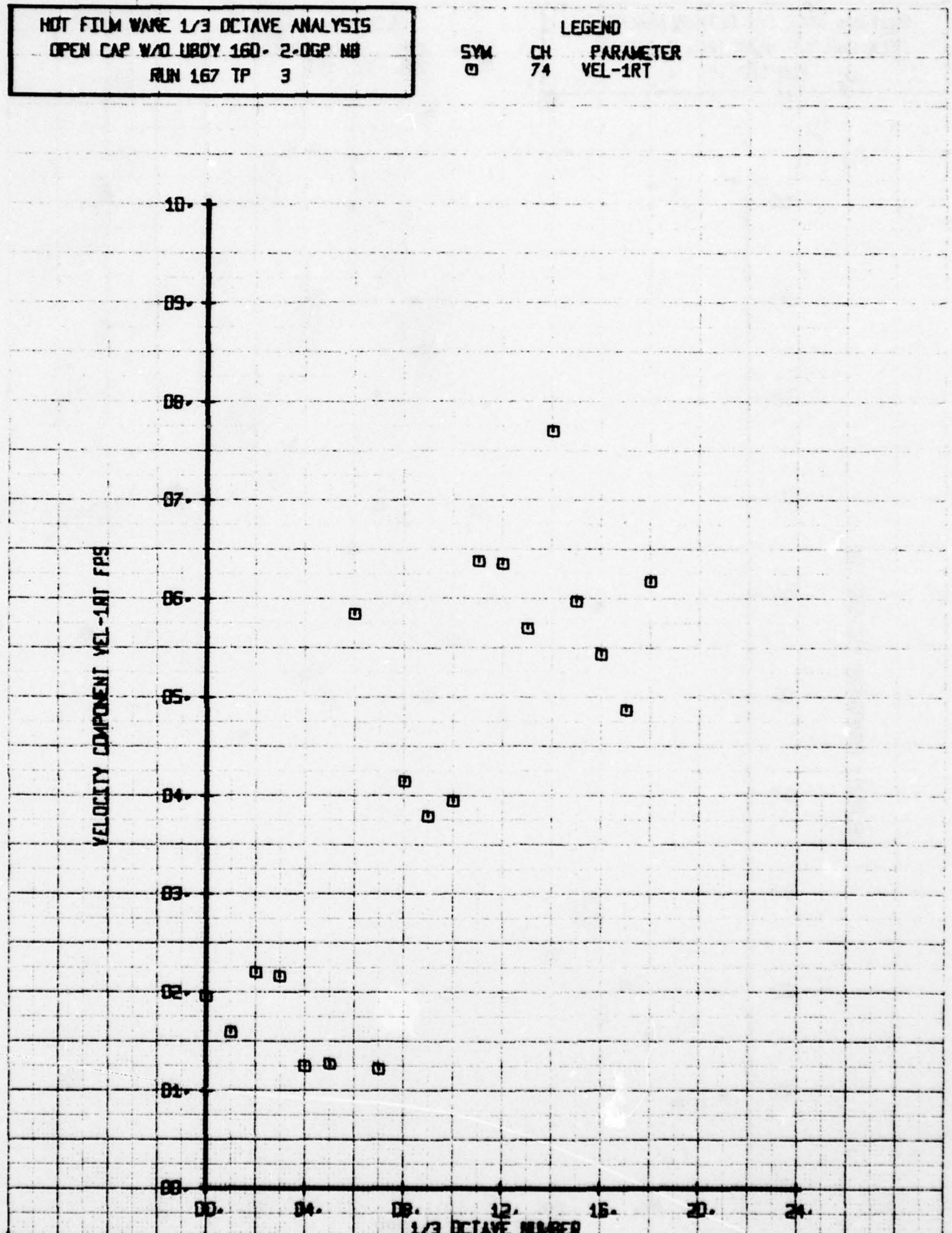
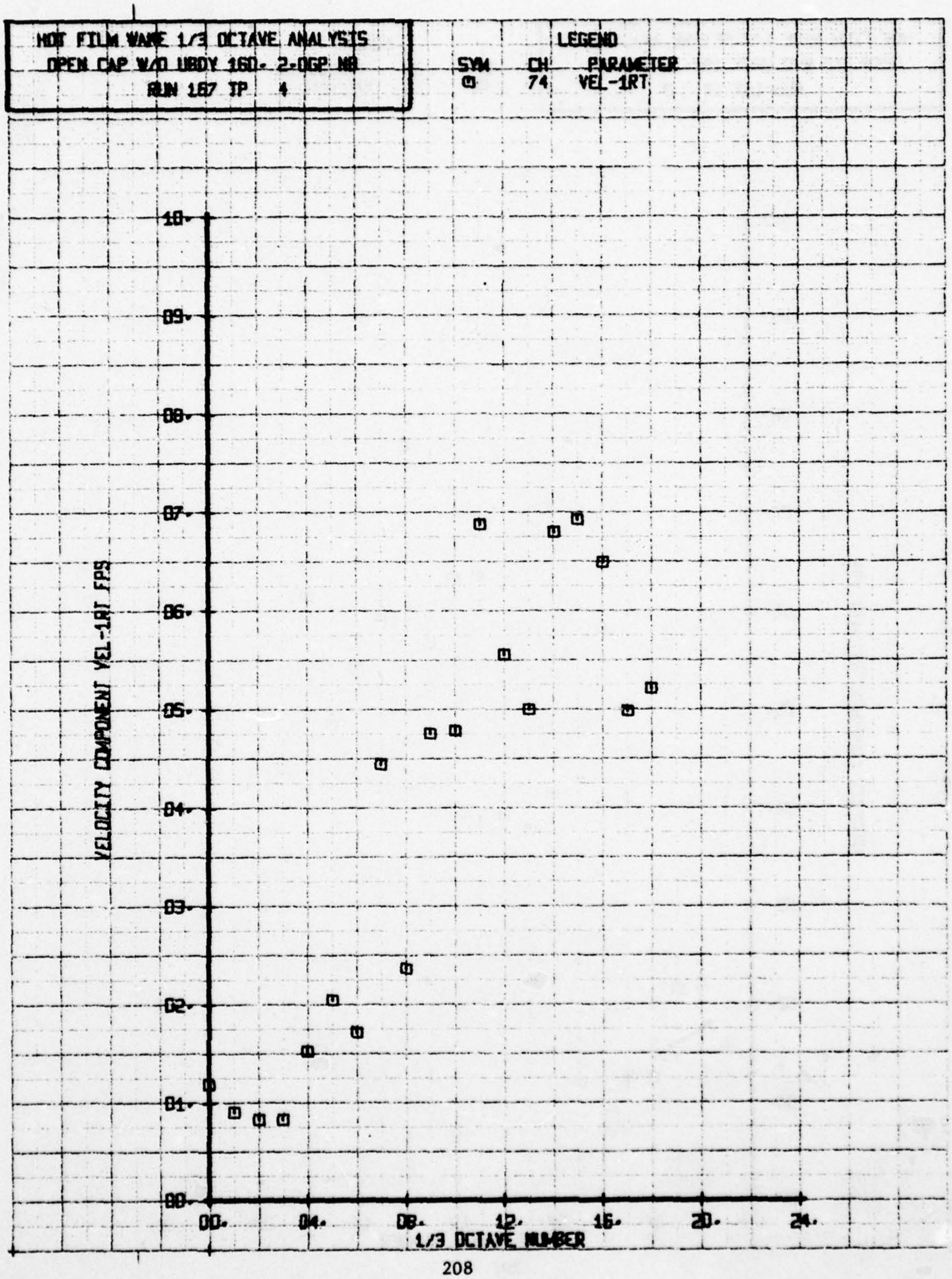
OPEN CAP W/O UBOY 16D. 2.0GP NB
RUN 167 TP 3




HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBOY 160. 2-OGP NB
RUN 167 TP 4
LEGEND
SYM CH PARAMETER
74 VEL-1RT
VELOCITY COMPONENT VEL-1RT FPS
1/3 OCTAVE NUMBER
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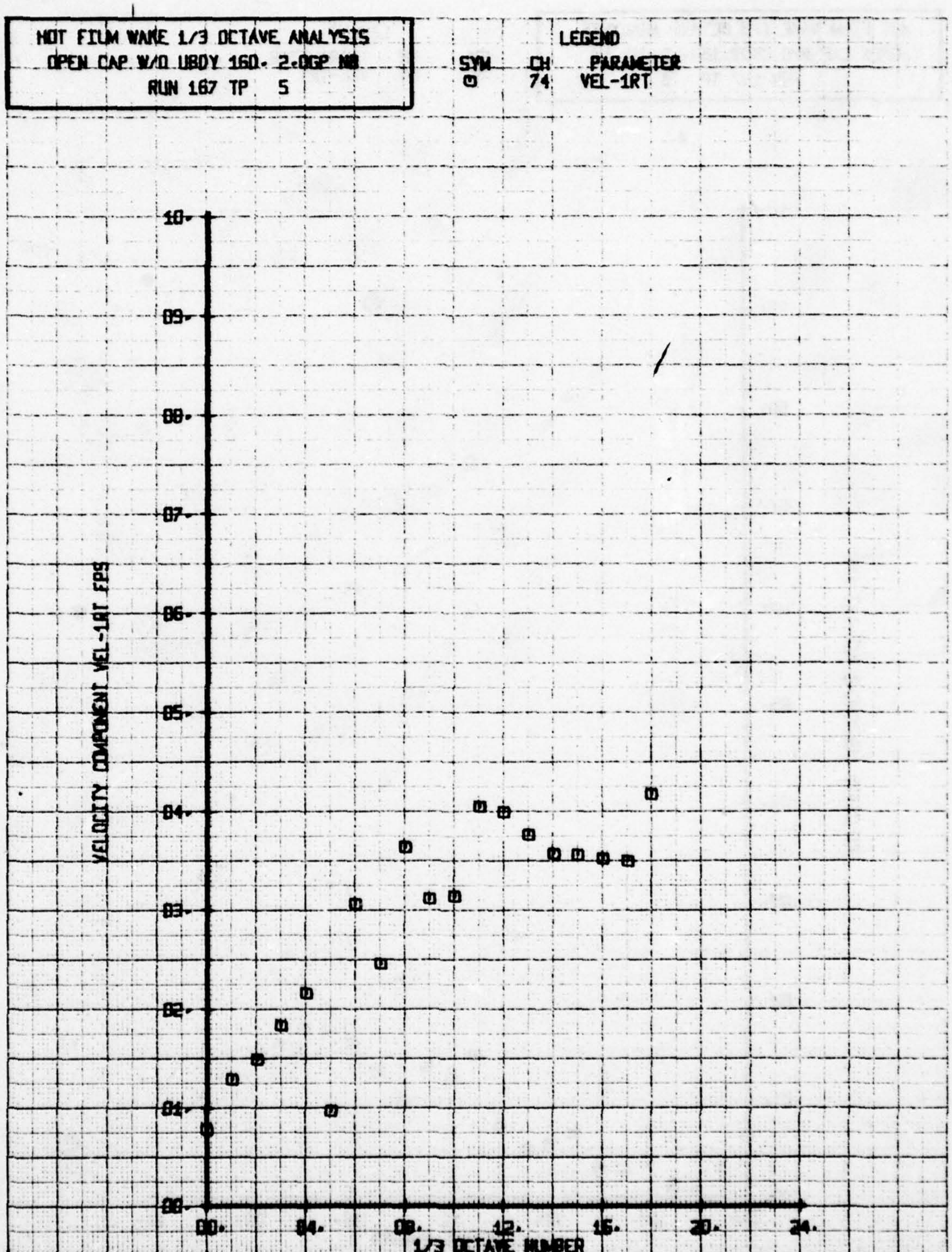
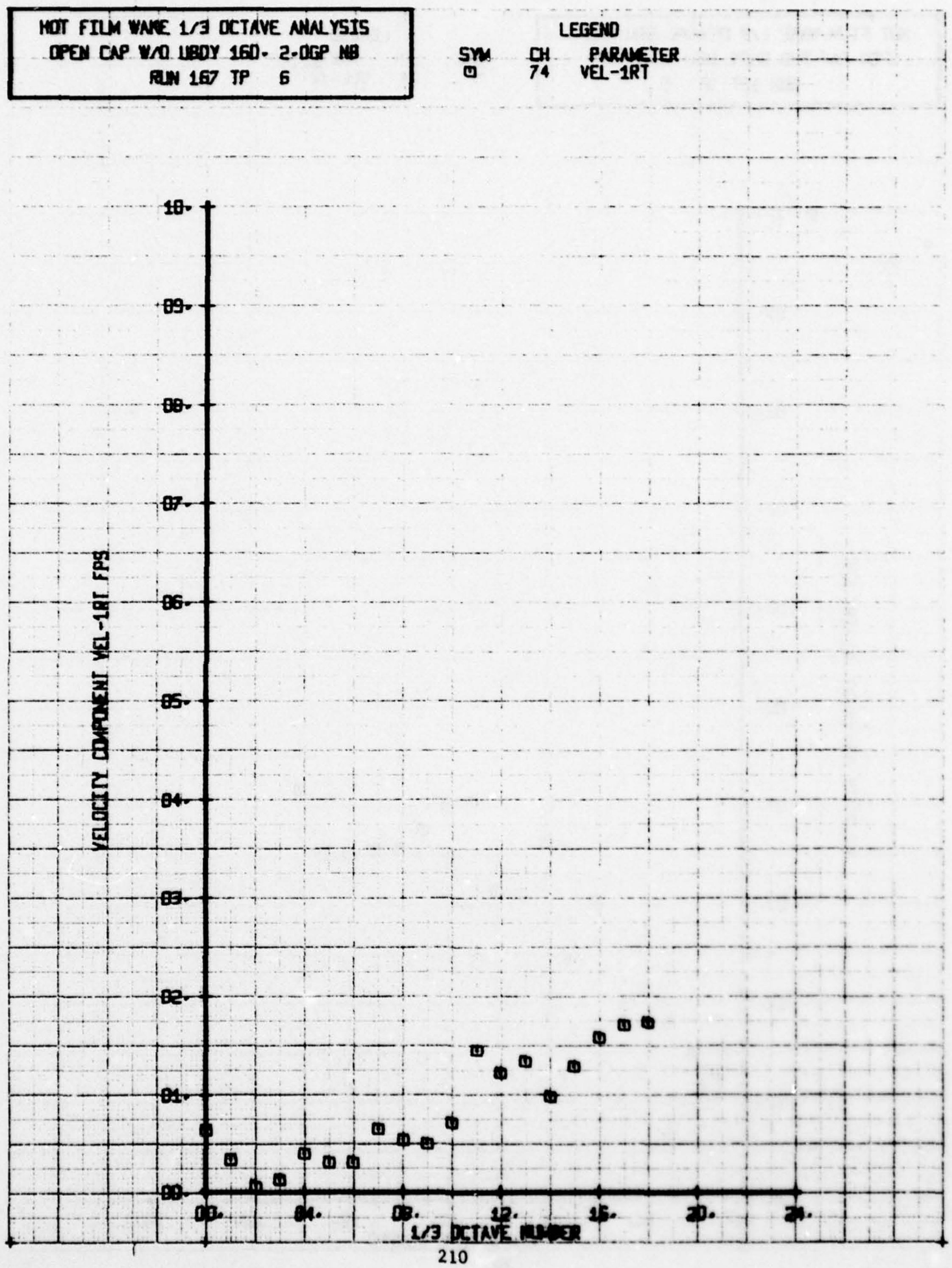

HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBDY 160. 2.0GP NB
RUN 167 TP 5
LEGEND
SYM CH PARAMETER
74 VEL-1RT
VELOCITY COMPONENT VEL-1RT FPS
1/3 OCTAVE NUMBER



HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBDY 160. 2-0GP NB
RUN 167 TP 6
LEGEND
SYM CH PARAMETER
74 VEL-1RT
VELOCITY COMPONENT VEL-1RT FPS
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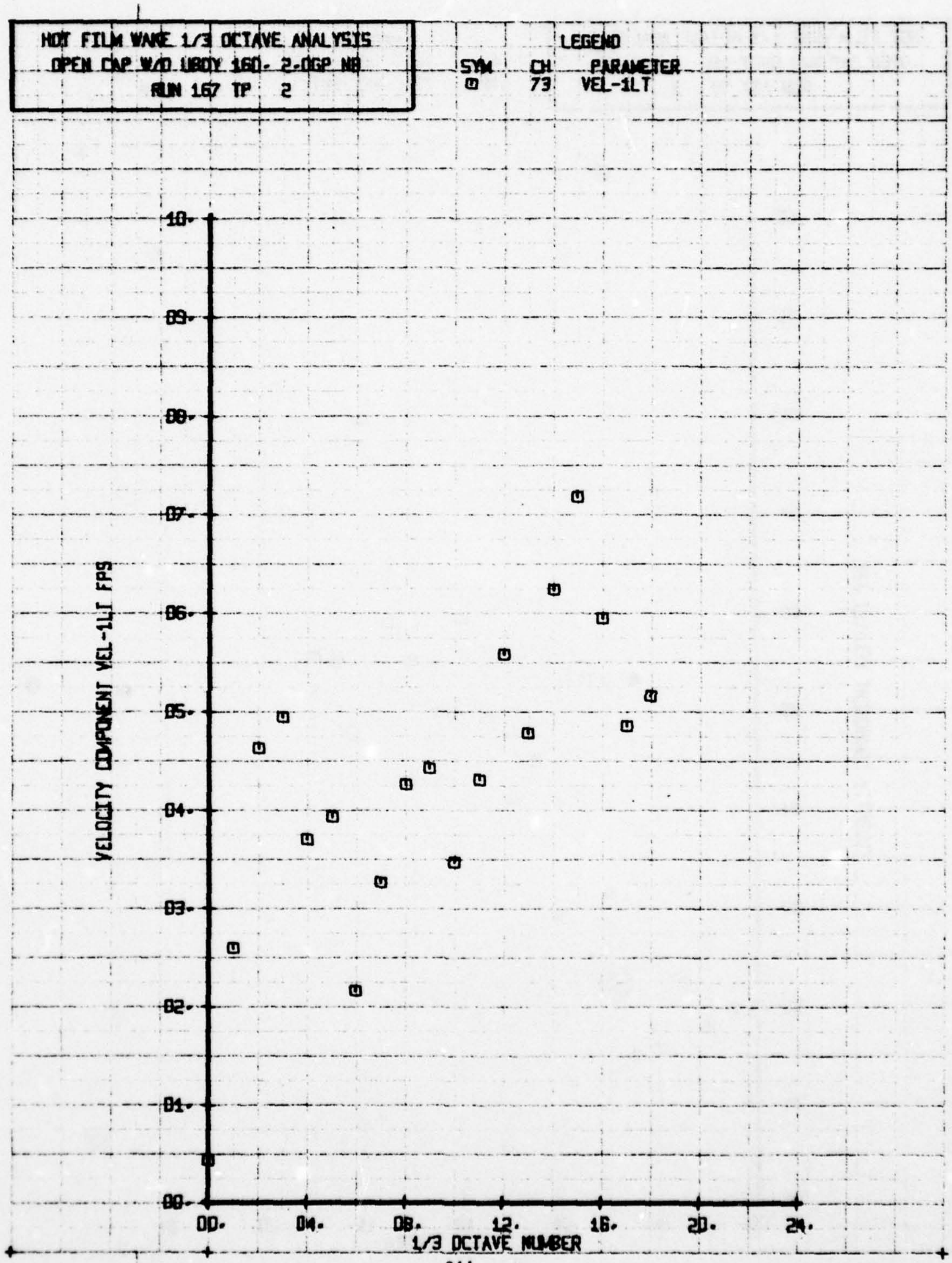
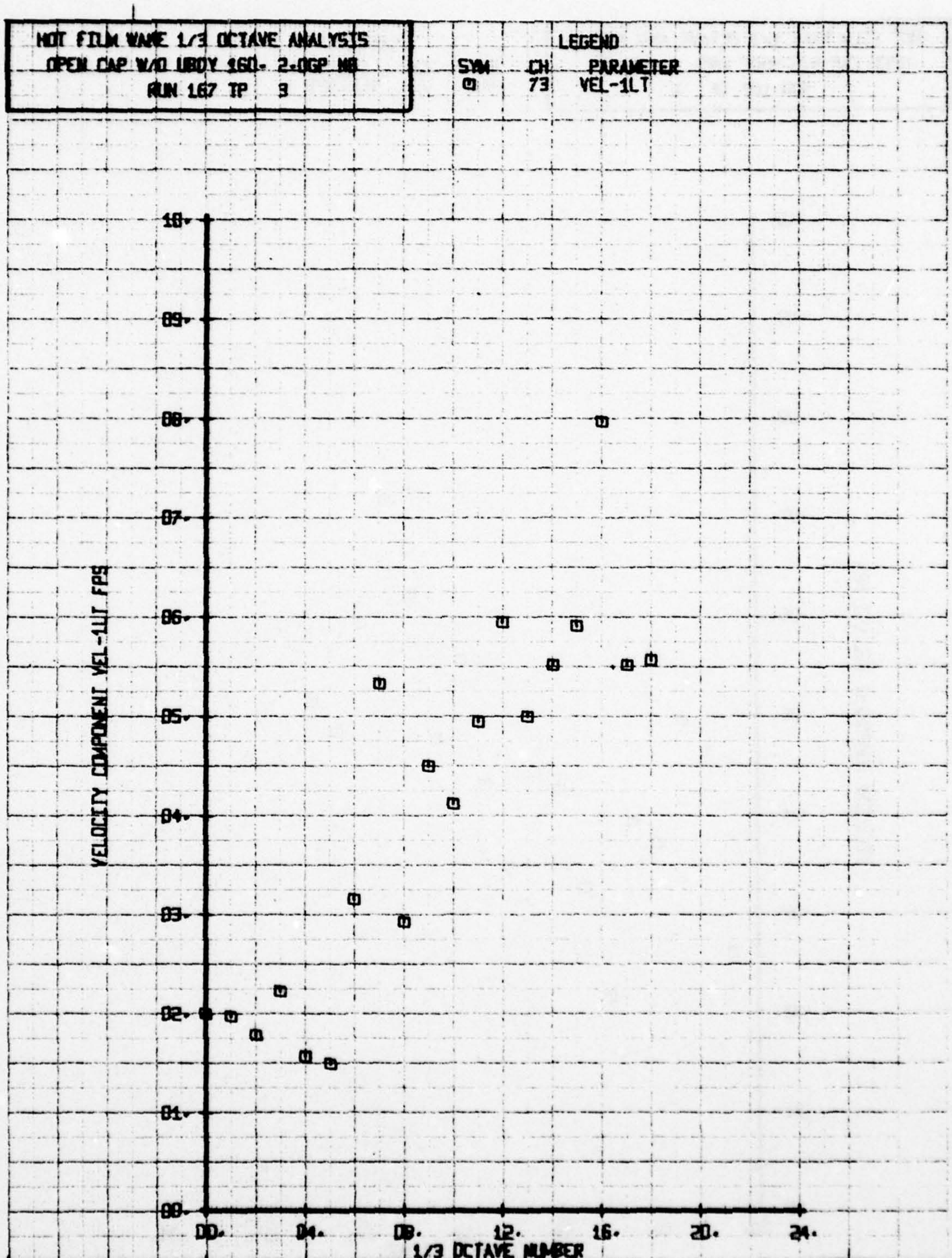
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBOY 160- 2-OGP NB
RUN 167 TP 2
LEGEND
SYM CH PARAMETER
73 VEL-1LT
VELOCITY COMPONENT VEL-1LT FPS
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBOY 160- 2.0GP MB
RUN 167 TP 3
LEGEND
SYM CH PARAMETER
73 VEL-1LT
VELOCITY COMPONENT VEL-1LT FPS
1/3 OCTAVE NUMBER
10.
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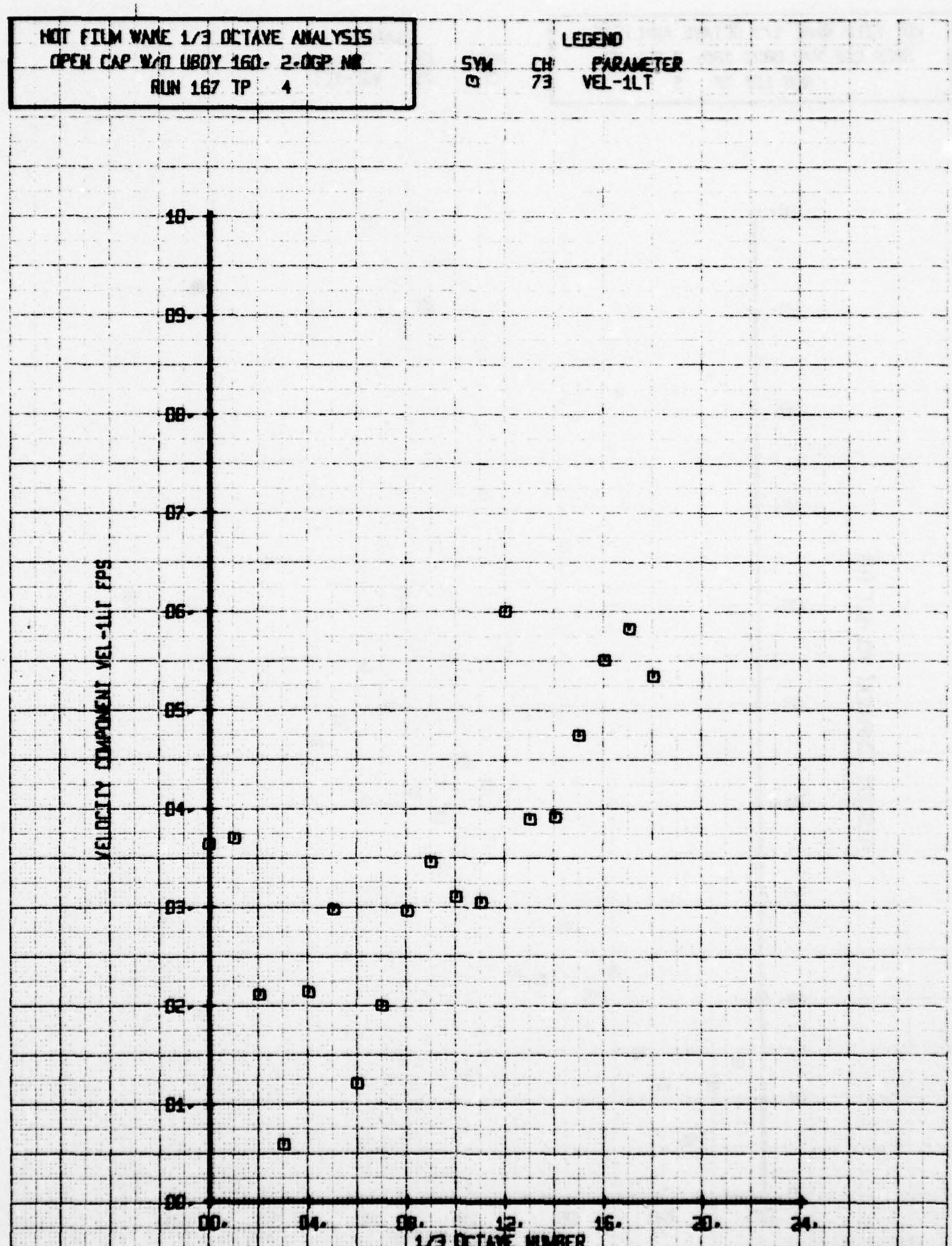
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBOY 160- 2-0GP NR
RUN 167 TP 4
LEGEND
SYM CH PARAMETER
73 VEL-1LT
VELOCITY COMPONENT VEL-1LT FPS
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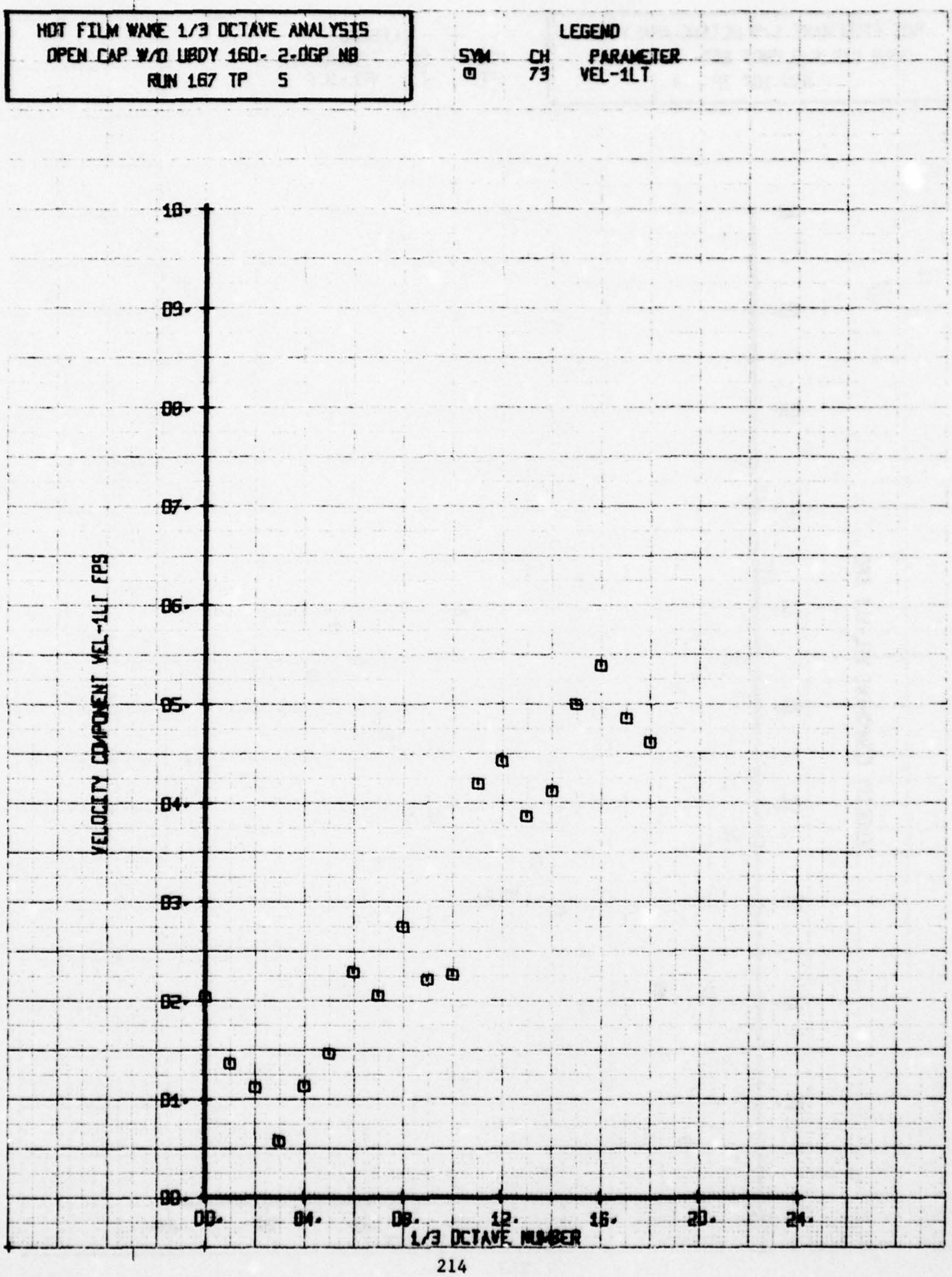
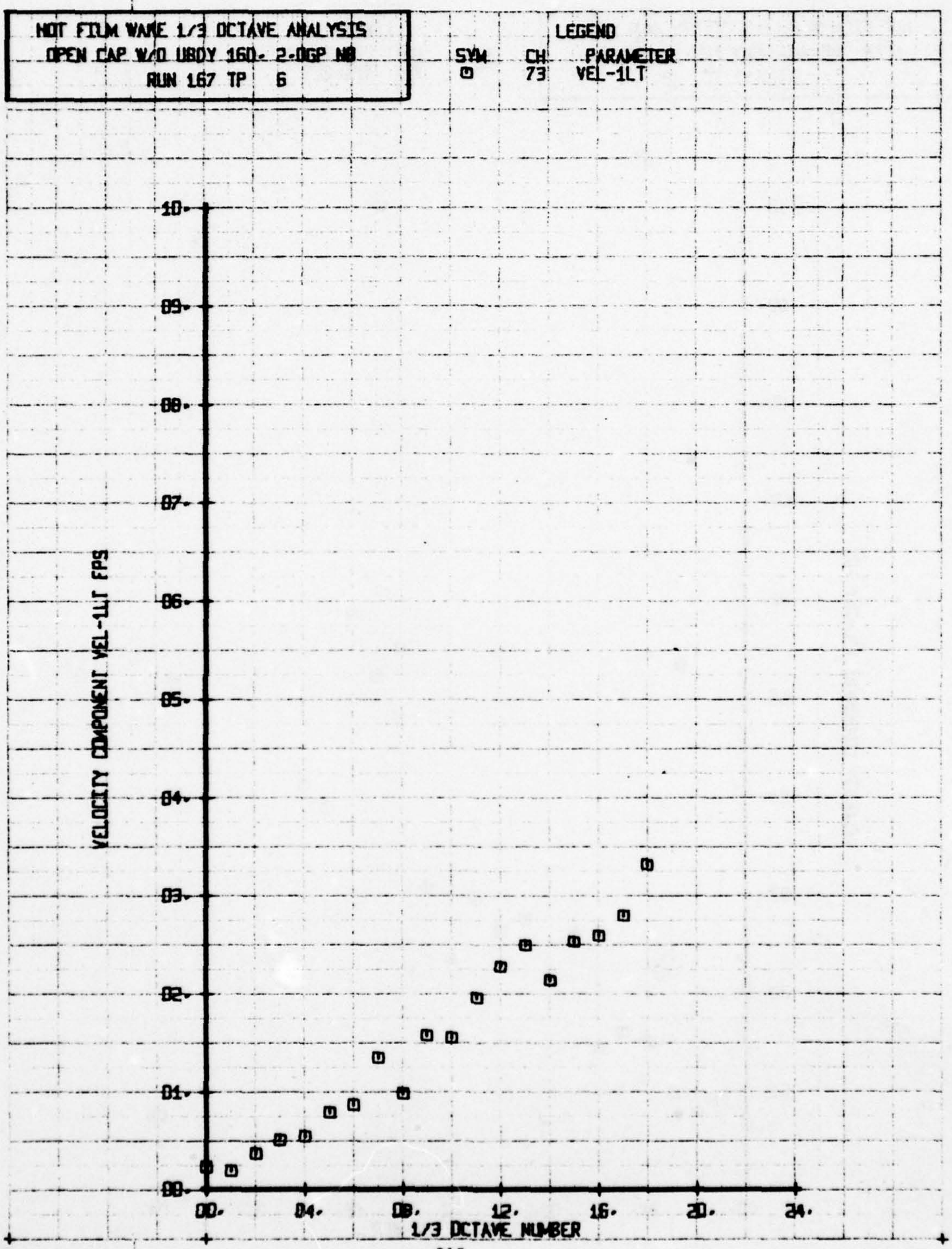
1/3 OCTAVE NUMBER



HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBDY 16D- 2-0GP NB
RUN 167 TP 5
LEGEND
SYM CH PARAMETER
73 VEL-1LT
VELOCITY COMPONENT VEL-1LT FPS
1/3 OCTAVE NUMBER



HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBDY 160. 2.0GP NB
RUN 167 TP 6
LEGEND
SYM. CH. PARAMETER
73 VEL-1LT
VELOCITY COMPONENT VEL-1LT FPS
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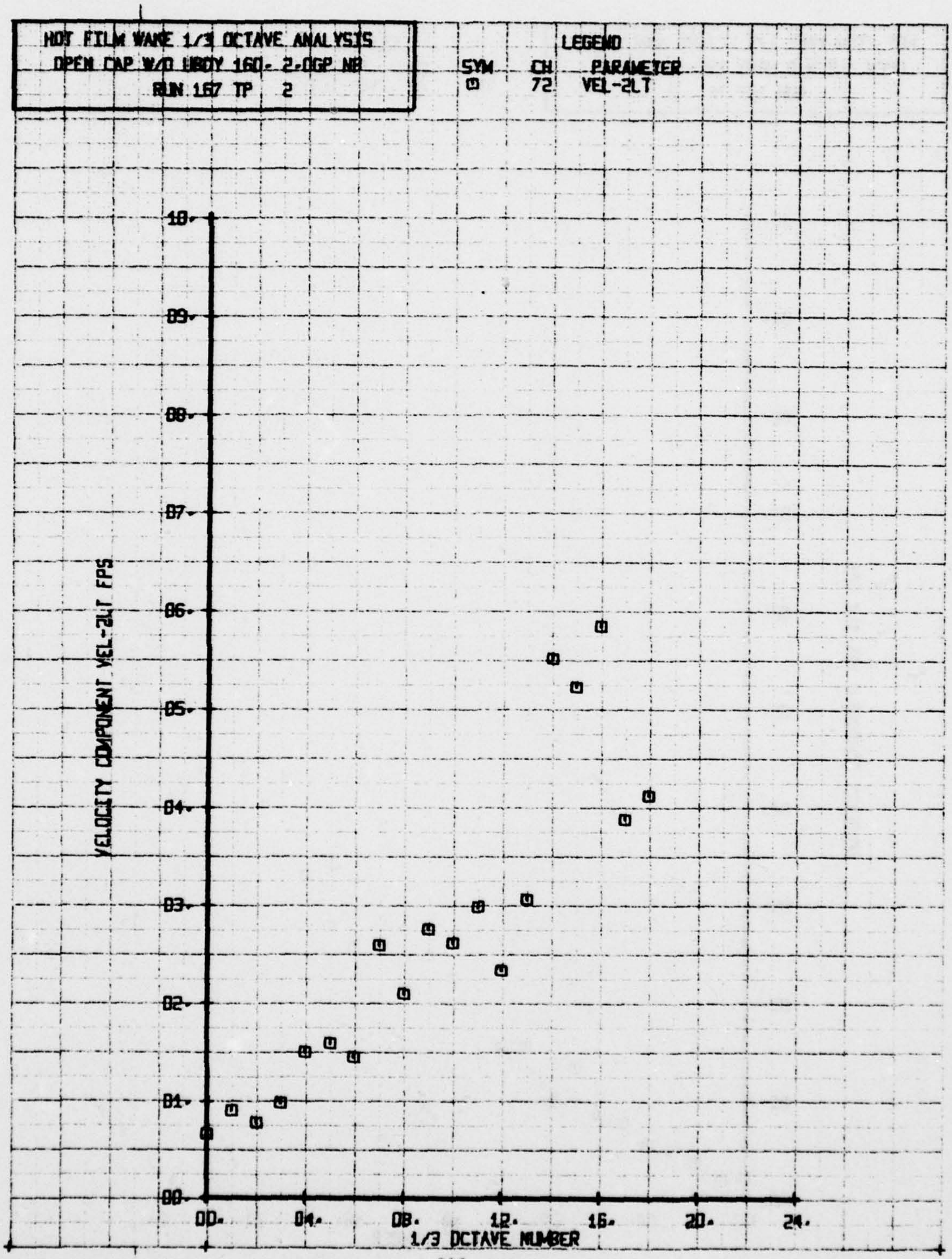
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBOY 160. 2.0GP NB
RUN 167 TP 2
LEGEND
SYM CH PARAMETER
72 VEL-2LT
VELOCITY COMPONENT VEL-2LT FPS
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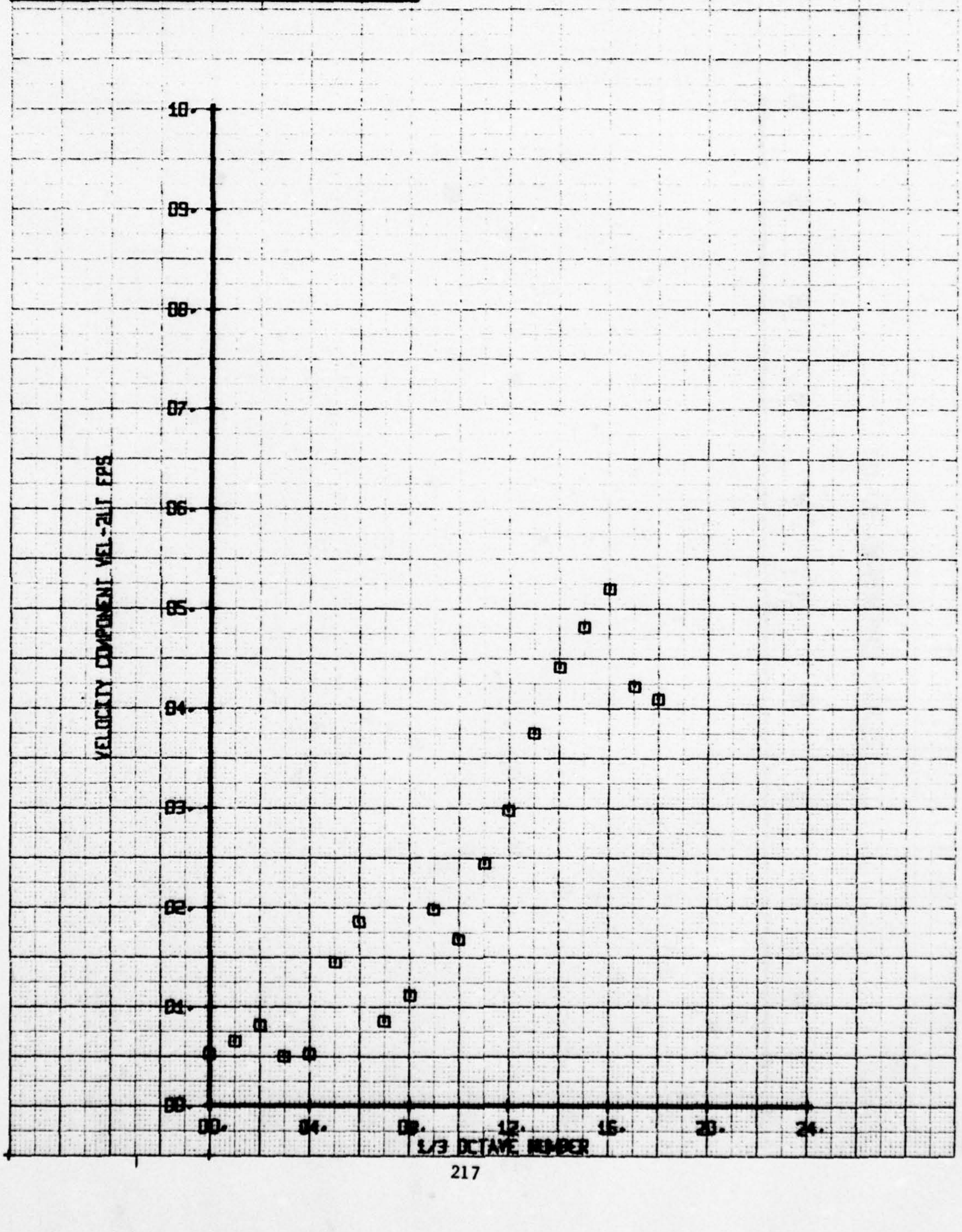
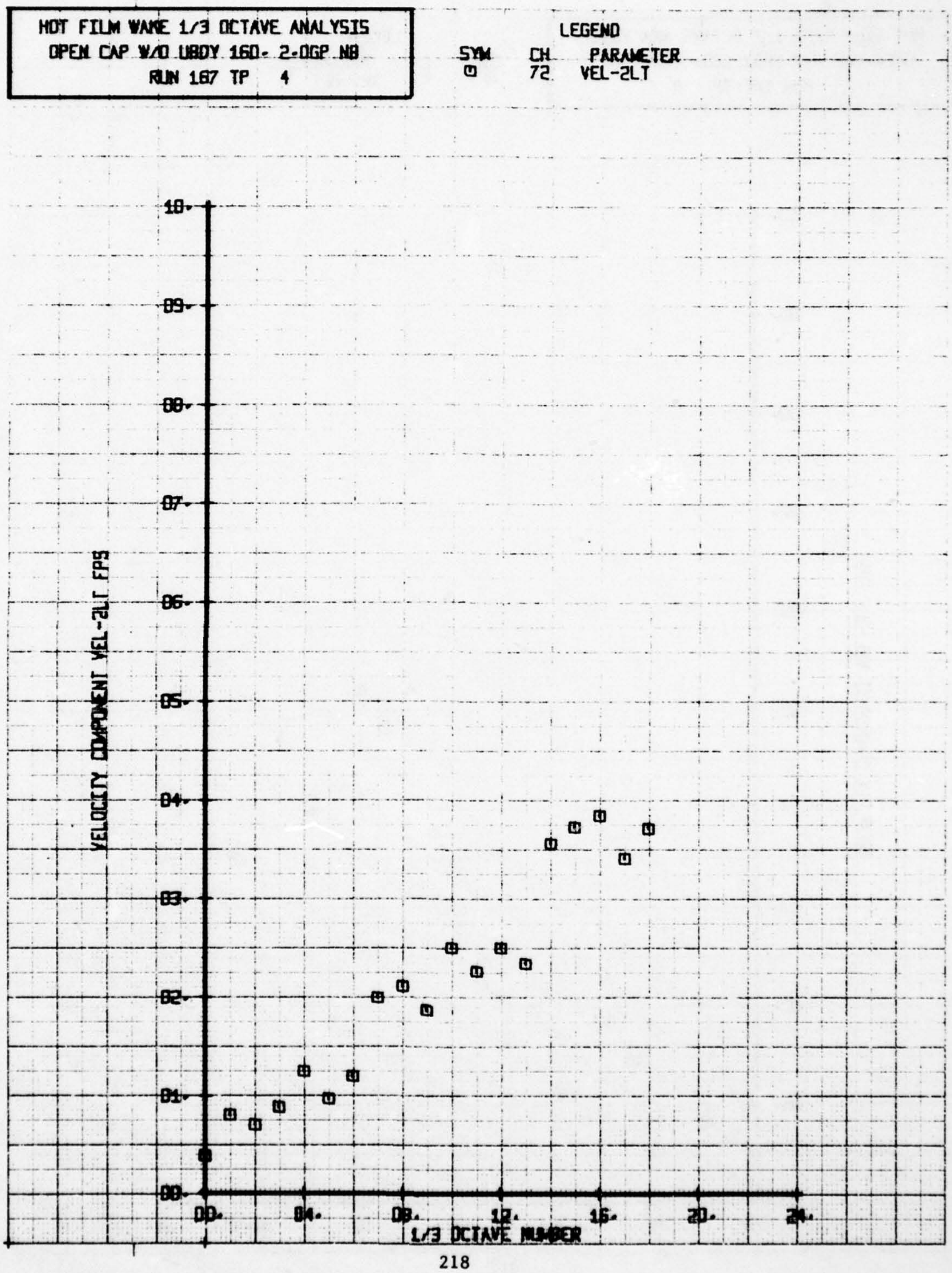
1/3 OCTAVE NUMBER

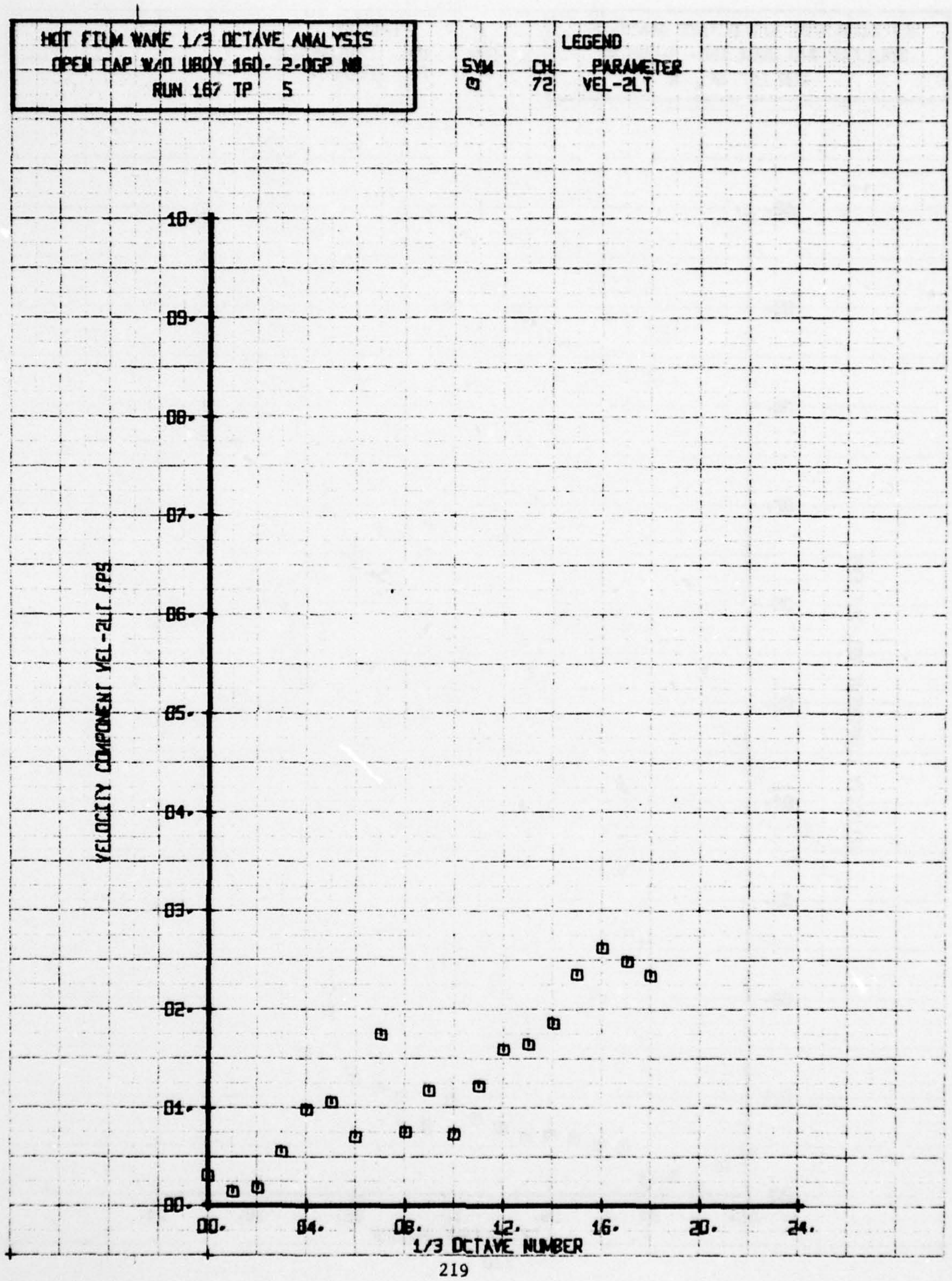
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBDY 160- 2-0GP NB
RUN 167 TP 3

LEGEND

SYM	CH	PARAMETER
⊡	72	VEL-2LT




HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBDY 160. 2.0GP NB
RUN 167 TP 4
LEGEND
SYM CH PARAMETER
72 VEL-2LT
VELOCITY COMPONENT VEL-2LT FPS
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBOY 160. 2-DGP NB
RUN 167 TP 5
LEGEND
SYM CH PARAMETER
72 VEL-2LT
VELOCITY COMPONENT VEL-2LT FPS
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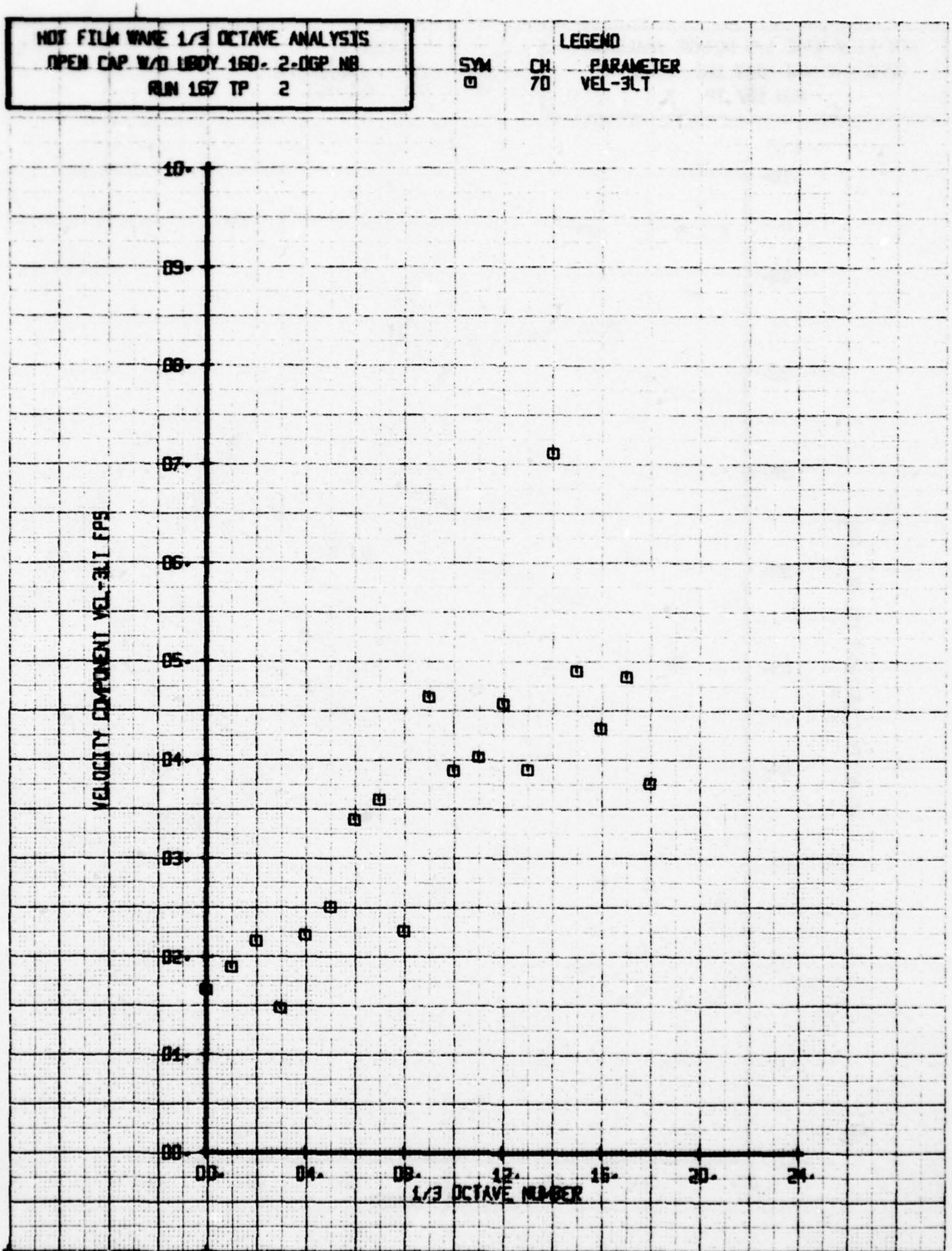
1/3 OCTAVE NUMBER



HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBDY 16D- 2-0GP NB
RUN 167 TP 2
LEGEND
SYM CH PARAMETER
70 VEL-3LT
VELOCITY COMPONENT VEL-3LT FPS
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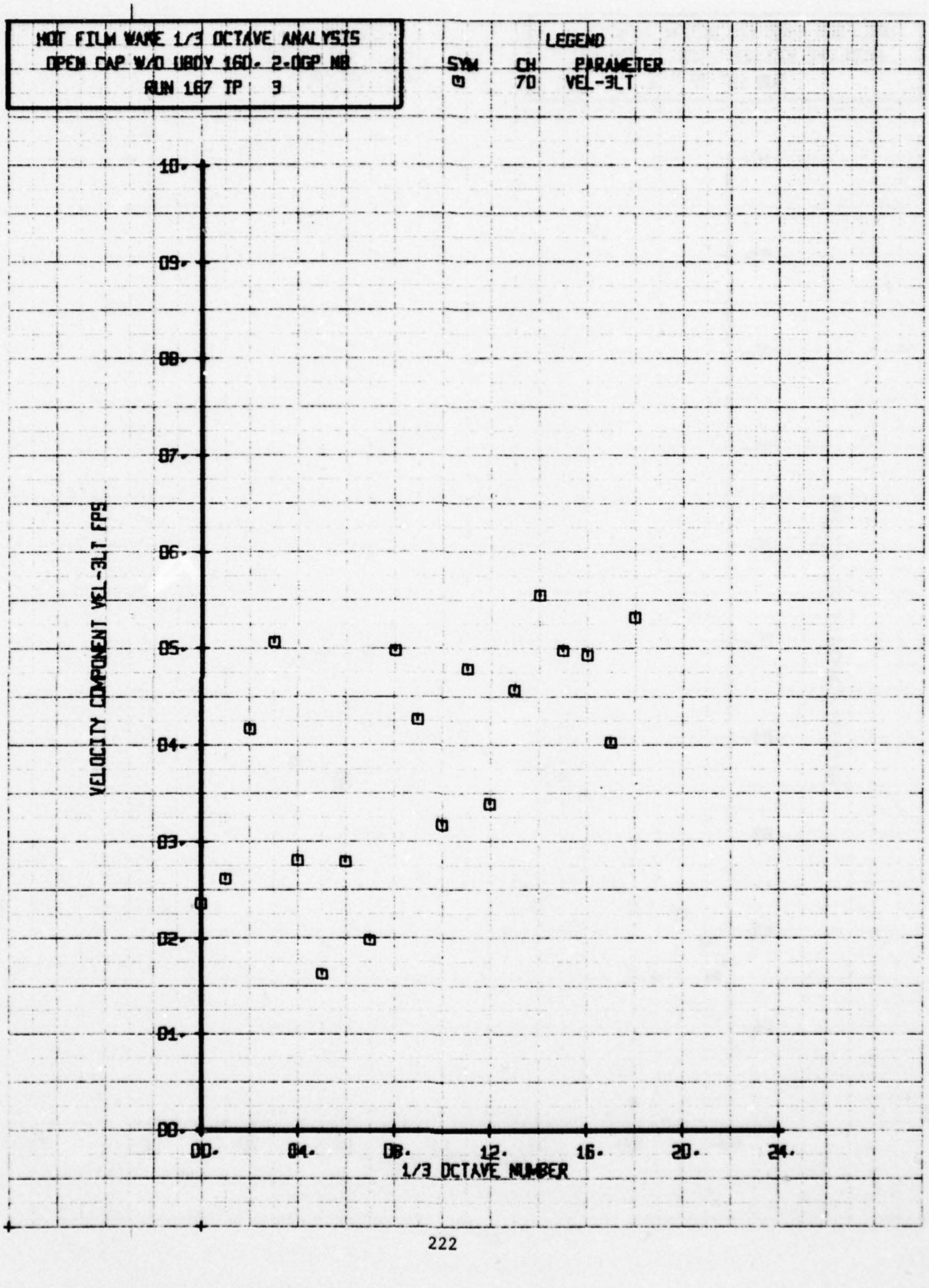
1/3 OCTAVE NUMBER



HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBOY 160. 2-DGP MB
RUN 167 TP 3
LEGEND
SYM CH PARAMETER
70 VEL-3LT
VELOCITY COMPONENT VEL-3LT FPS
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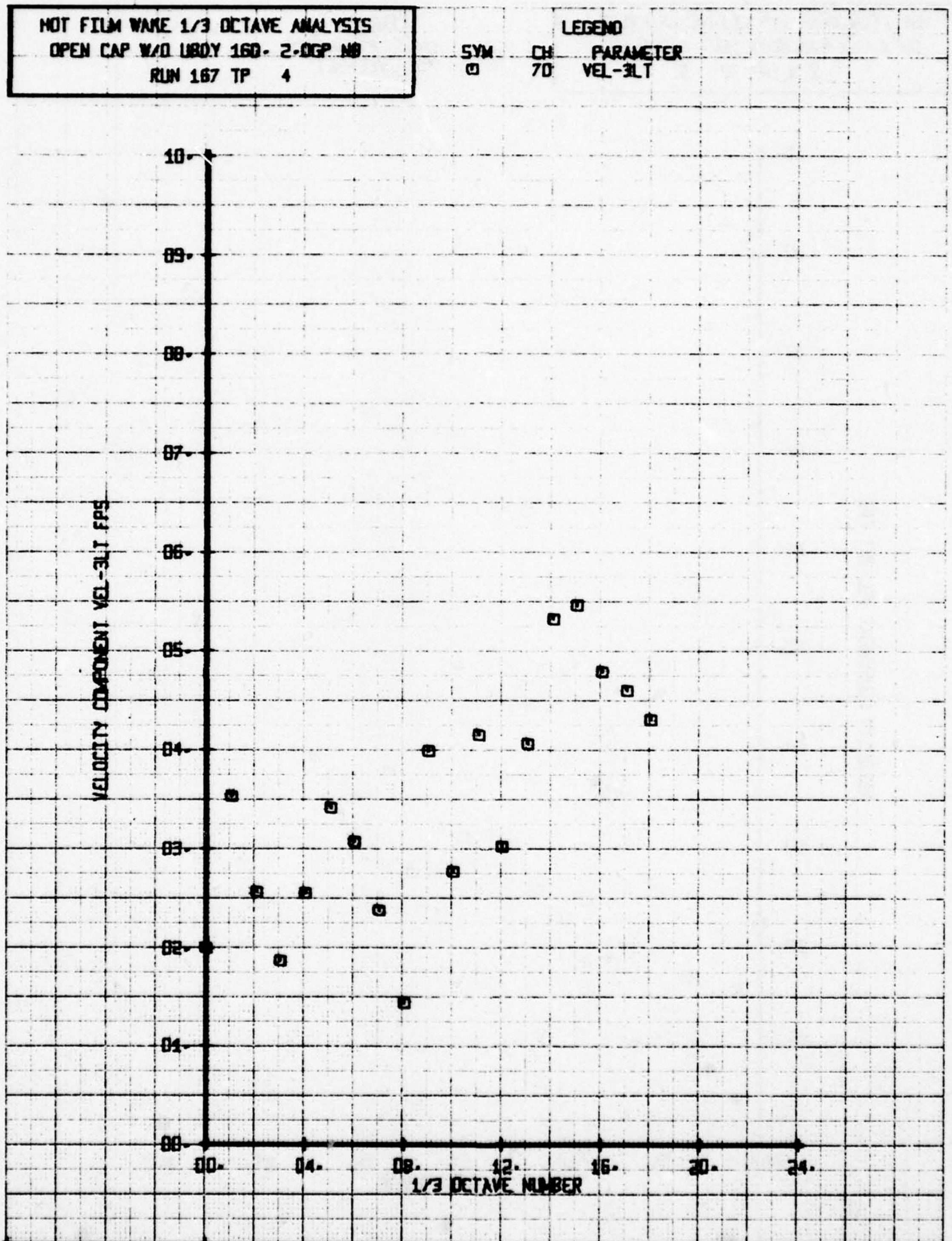
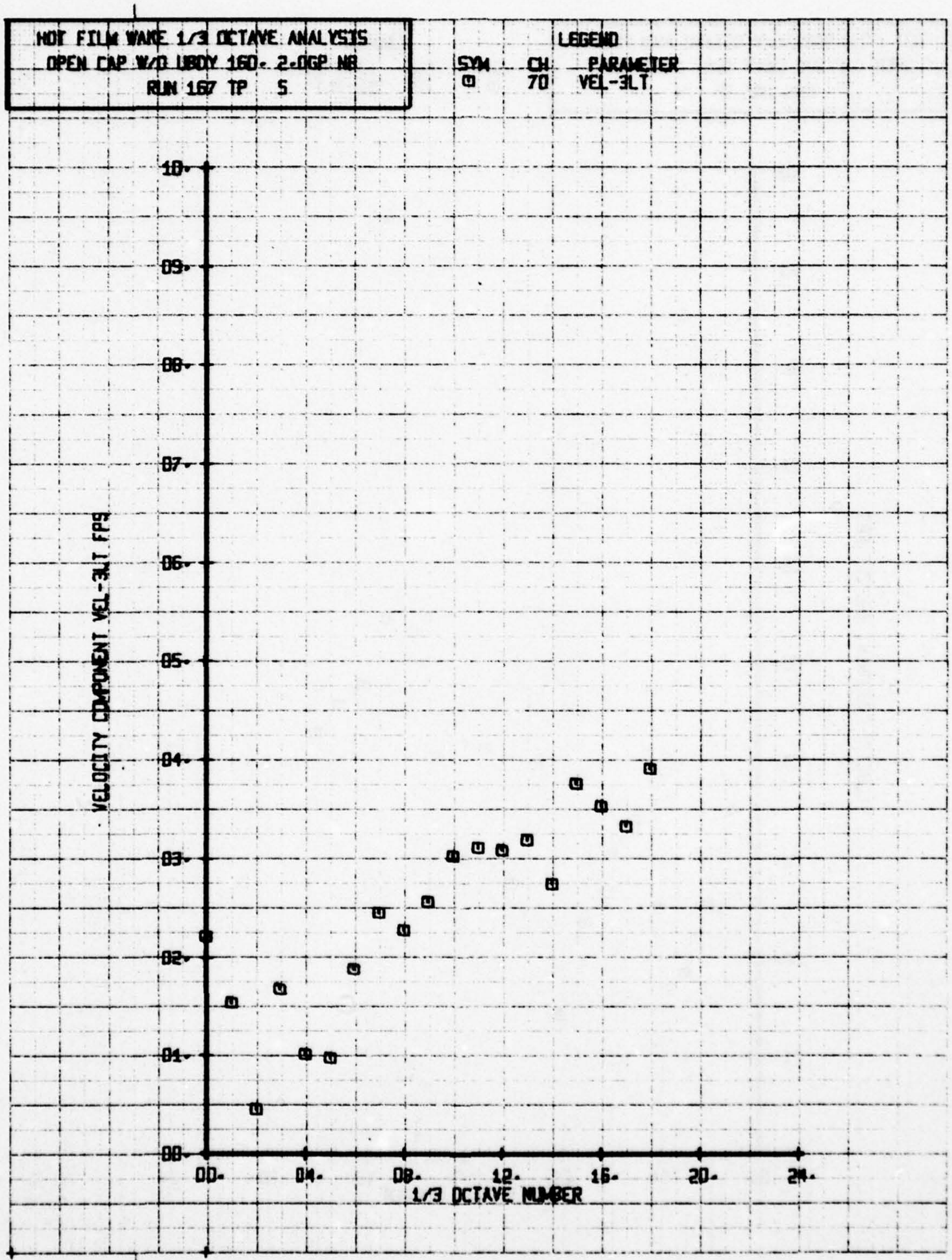
1/3 OCTAVE NUMBER



HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBOY 160- 2-0GP N0
RUN 167 TP 4
LEGEND
SYM CH PARAMETER
70 VEL-3LT
VELOCITY COMPONENT VEL-3LT FPS
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBDY 160. 2.0GP NB
RUN 167 TP 5
LEGEND
SYM CH PARAMETER
70 VEL-3LT
VELOCITY COMPONENT VEL-3LT FPS
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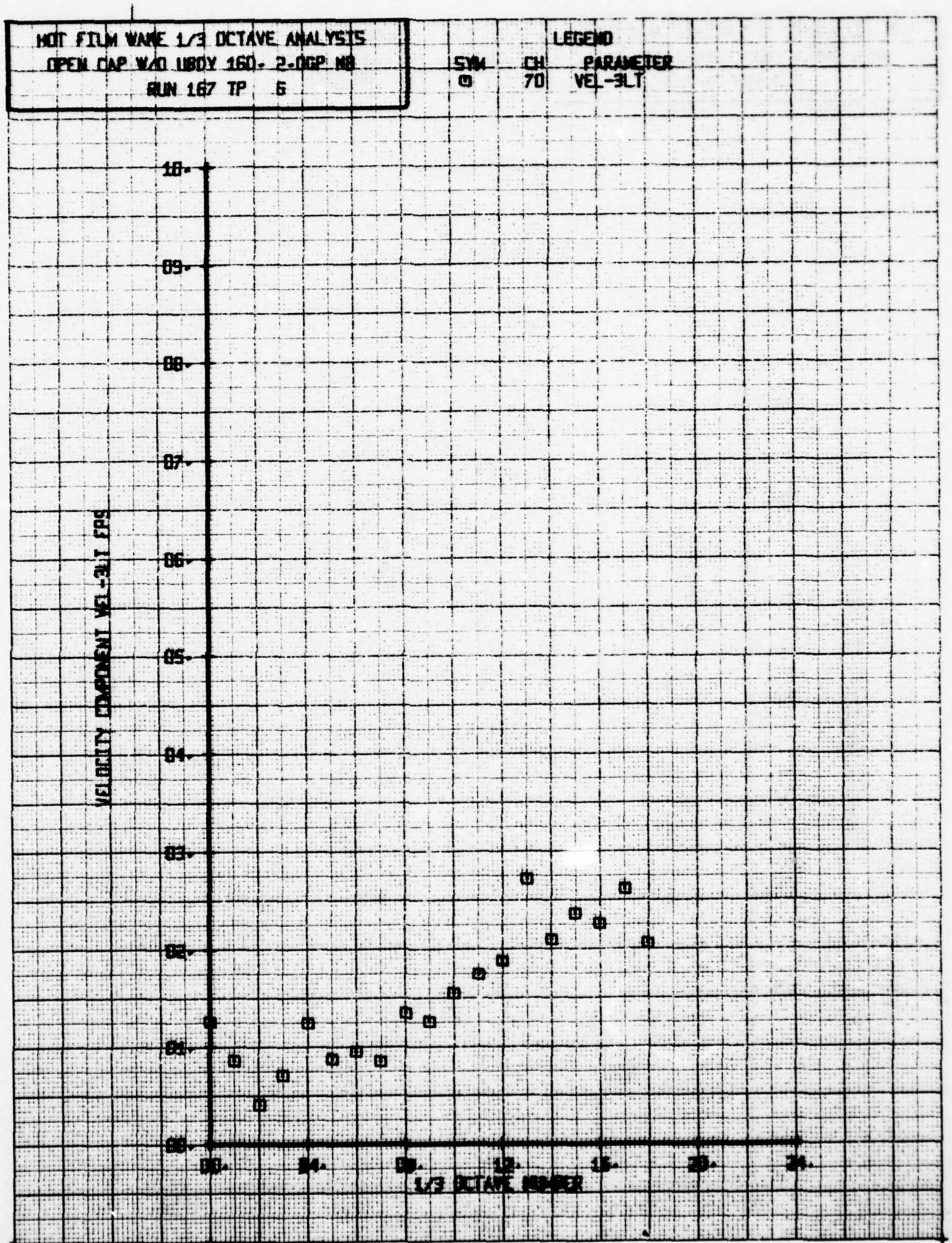
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W/O UBDY 160- 2-0GP NB
RUN 167 TP 6
LEGEND
SYM CH PARAMETER
70 VEL-3LT
VELOCITY COMPONENT VEL-3LT FPS
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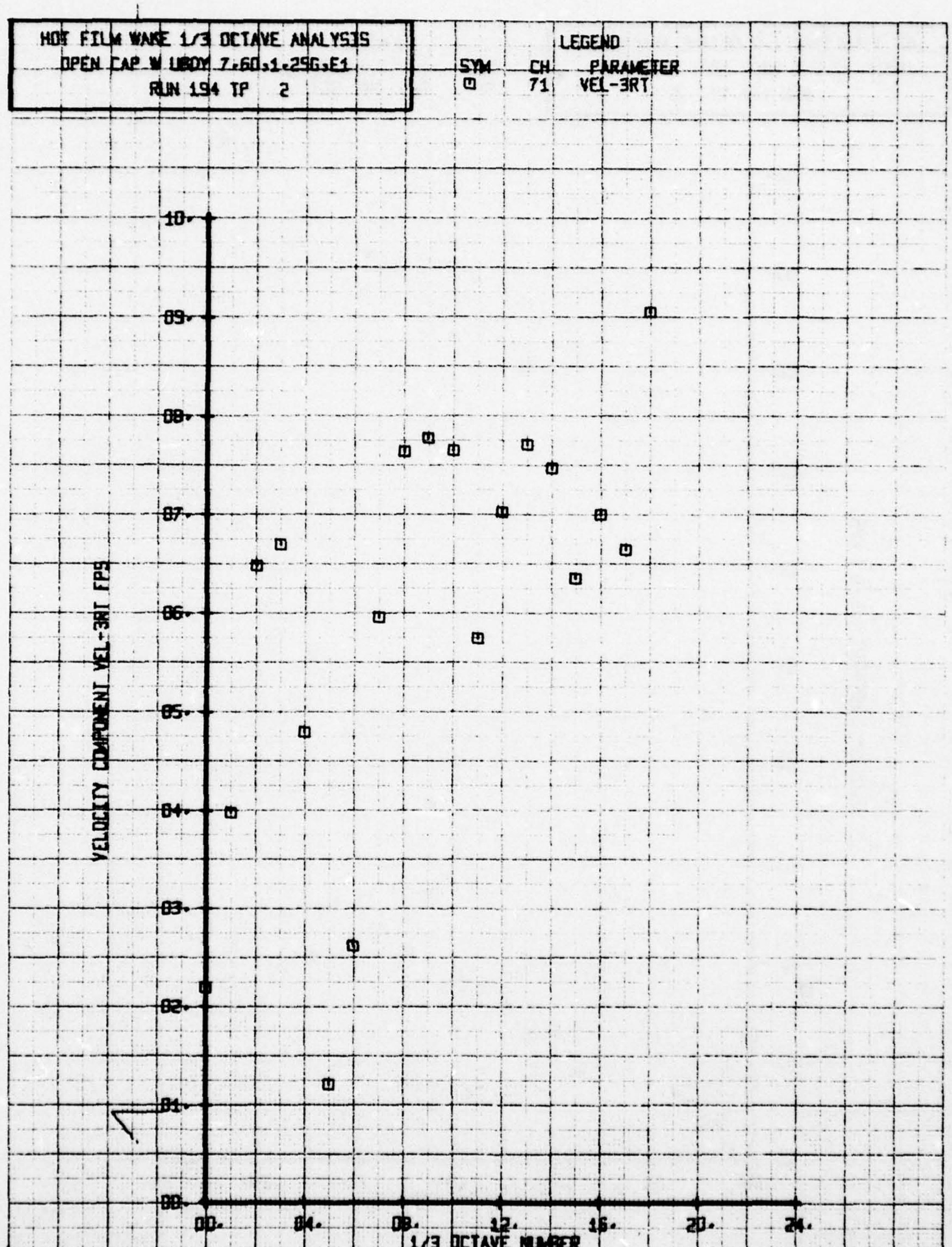
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBOY 7.60,1.25G,E1
RUN 194 TP 2
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
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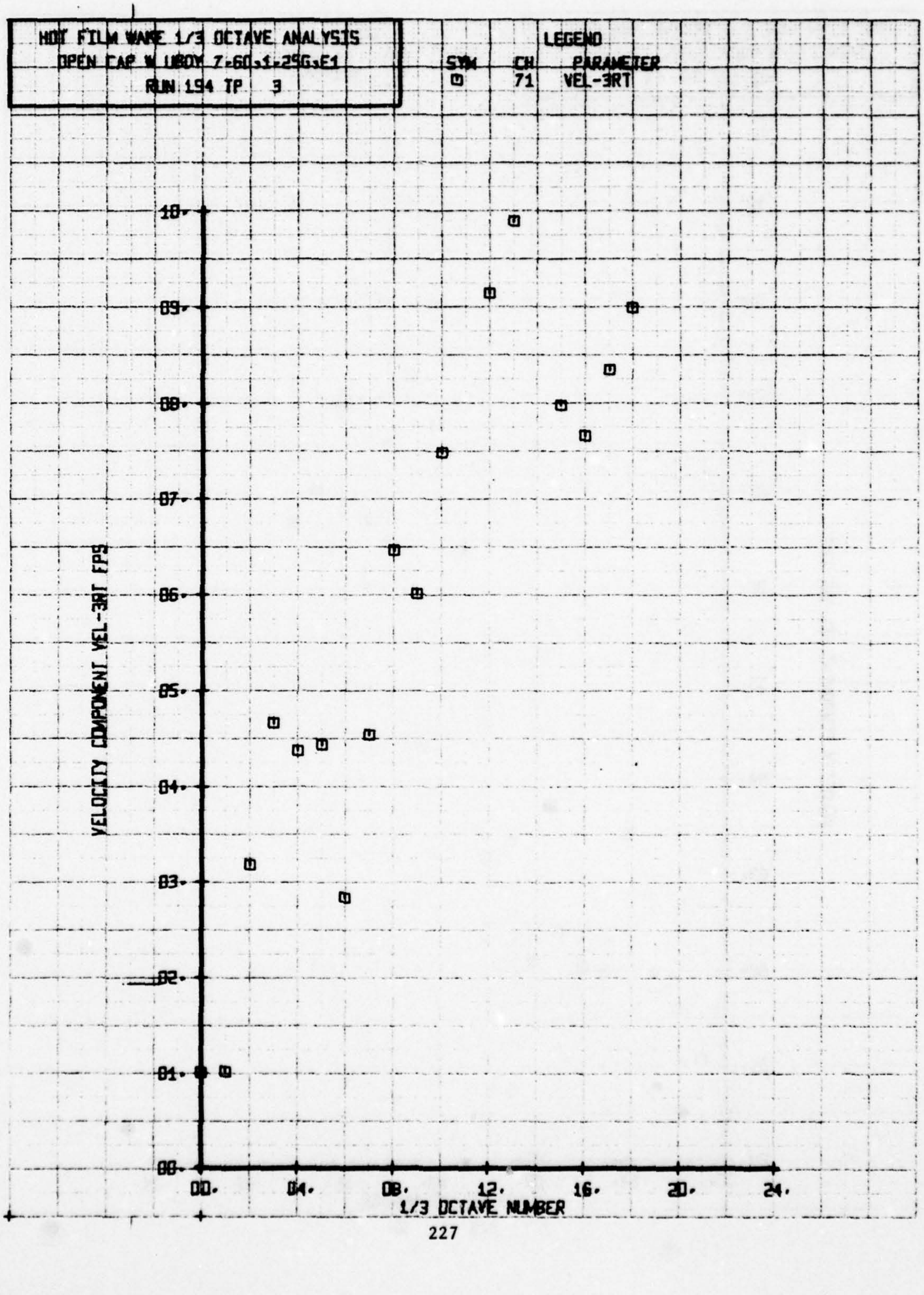
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBOY 7.60,1.25G,E1
RUN 194 TP 3
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
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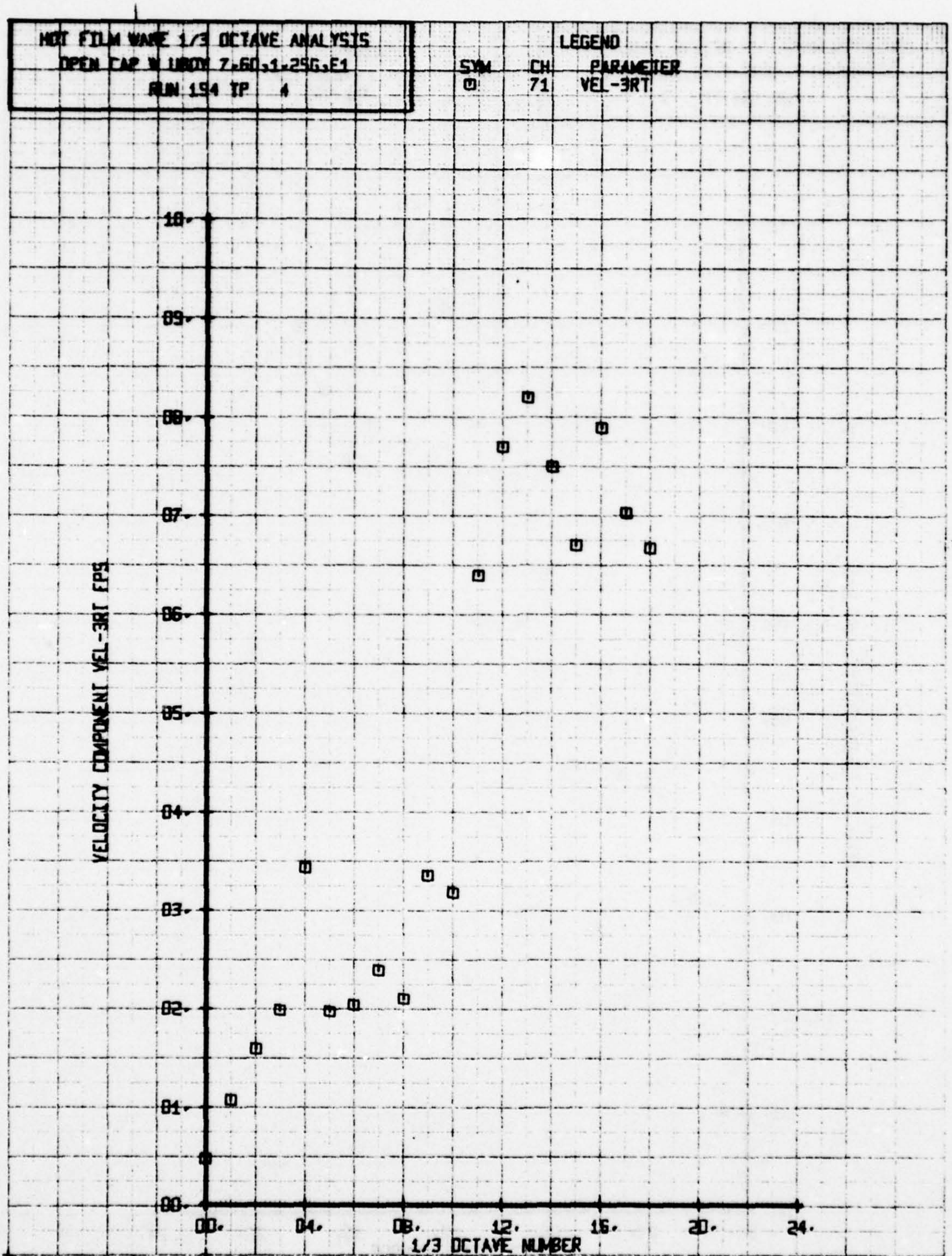
1/3 OCTAVE NUMBER



HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBOY 7.60,1.25G,E1
RUN 154 TP 4
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
1/3 OCTAVE NUMBER
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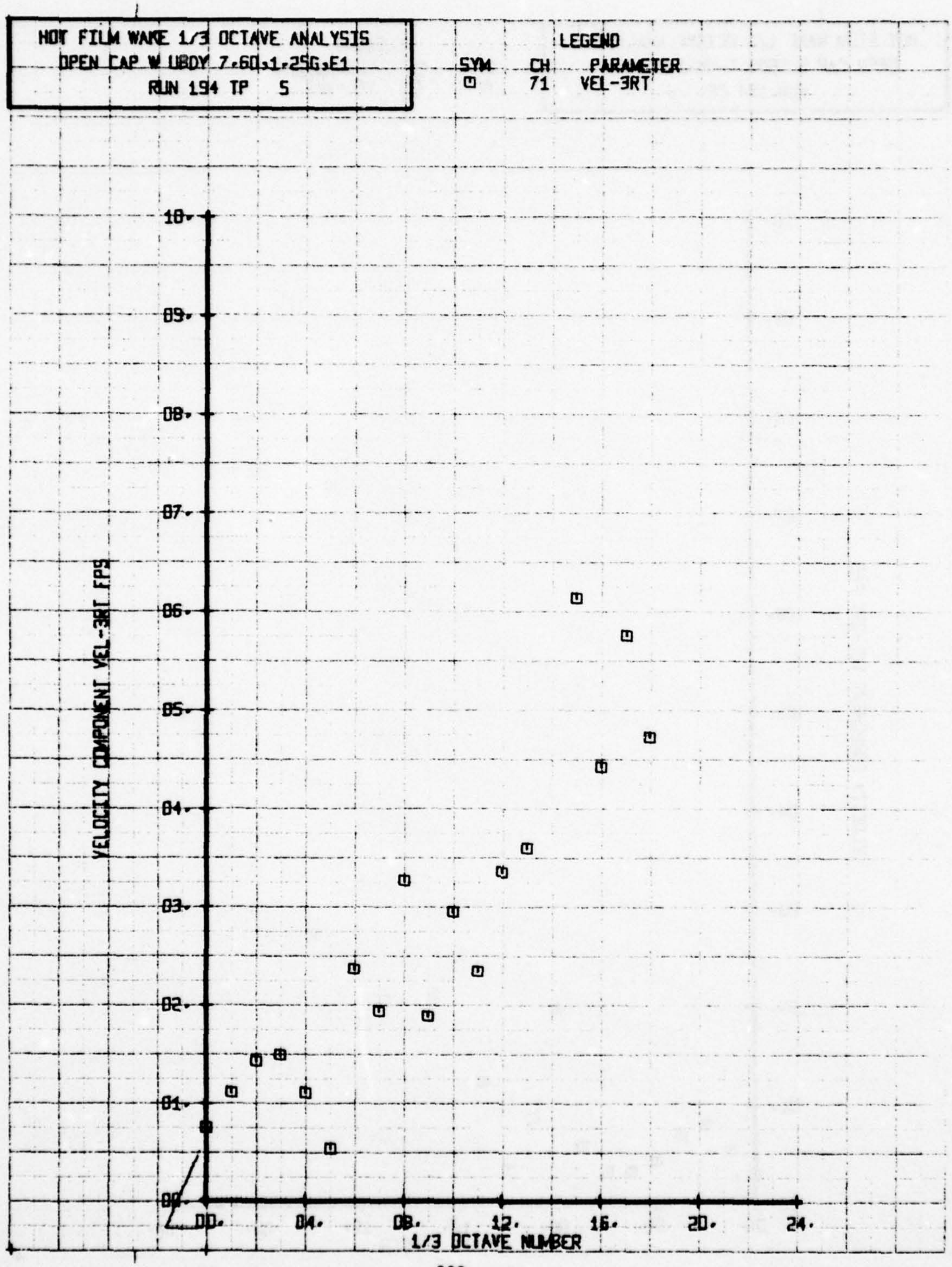
00. 04. 08. 12. 16. 20. 24.


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBDY 7.60,1.25G,E1
RUN 194 TP 5
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
1/3 OCTAVE NUMBER
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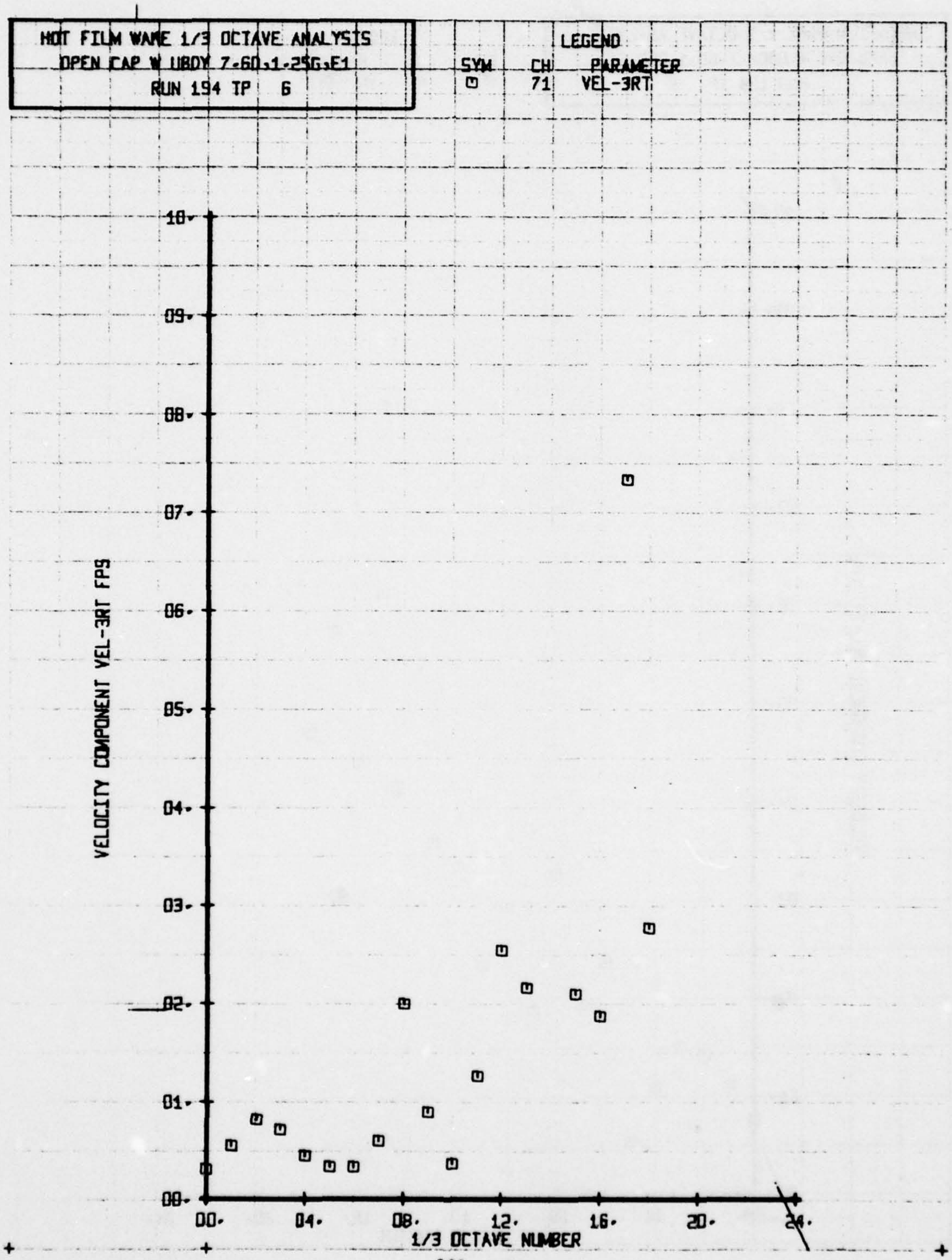
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBOY 7.60,1.25G,E1
RUN 194 TP 6
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
1/3 OCTAVE NUMBER
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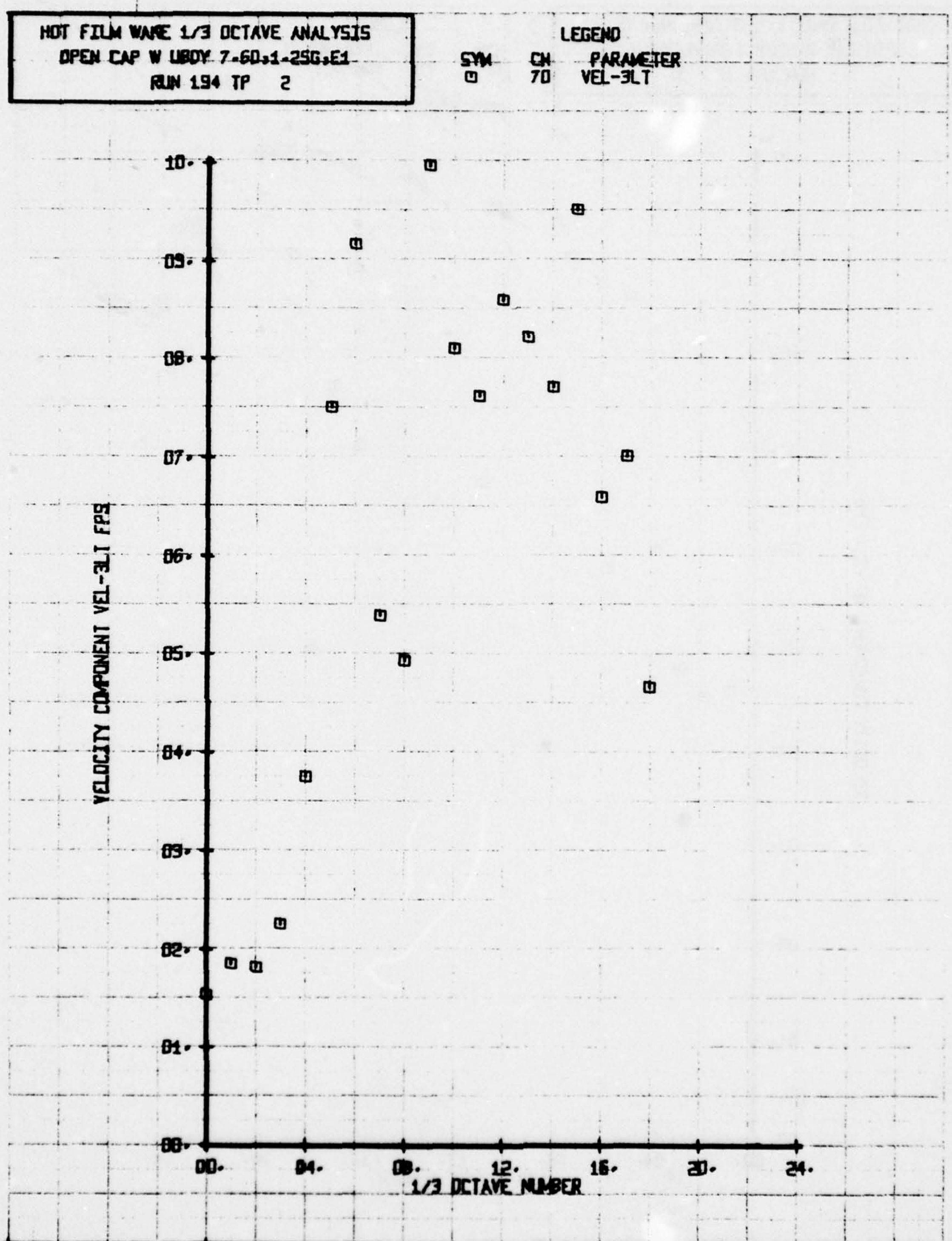
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBOY 7-6D,1-25G,E1
RUN 194 TP 2
LEGEND
SYM CH PARAMETER
70 VEL-3LT
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VELOCITY COMPONENT VEL-3LT FPS
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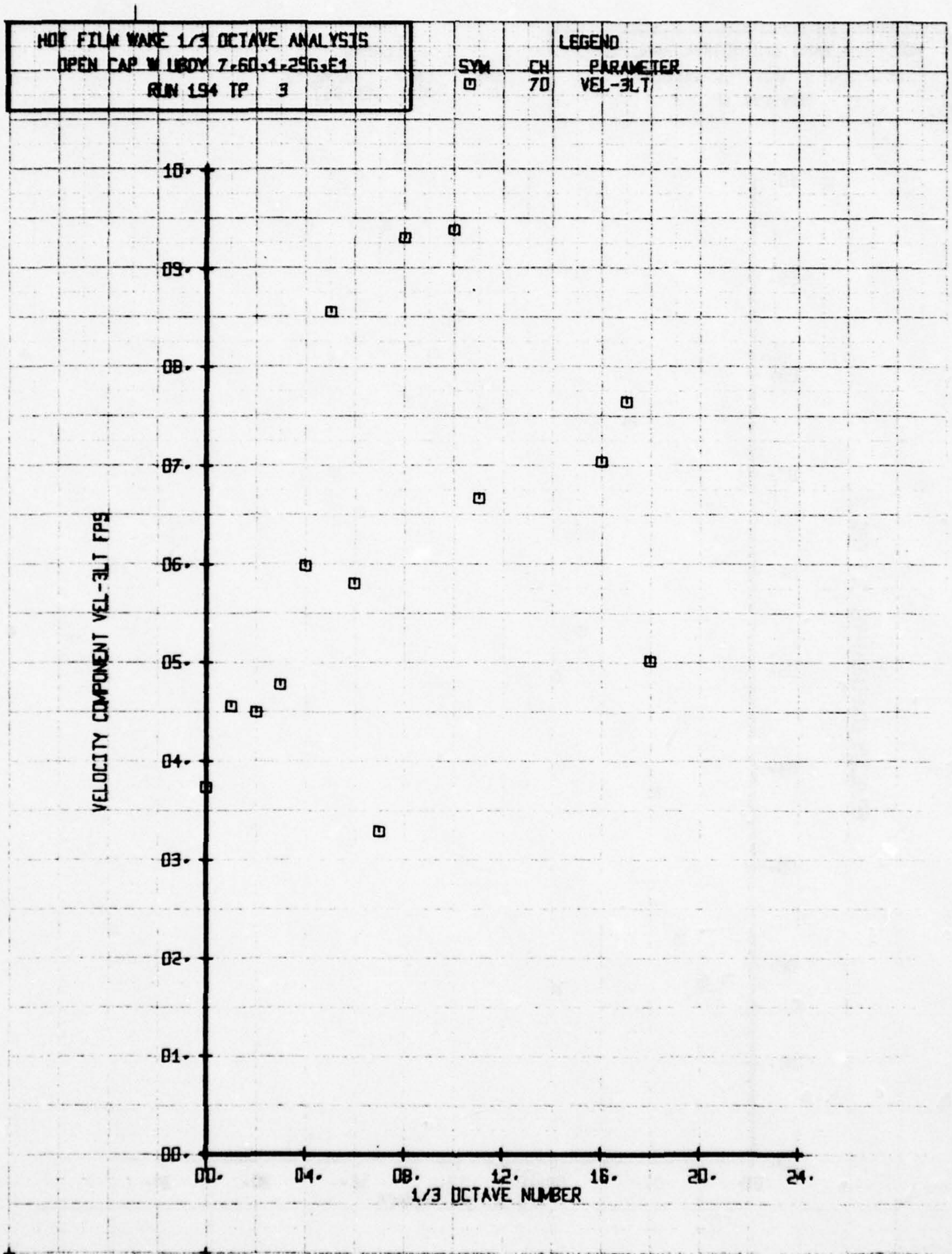
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBDY 7.6D,1.25G,E1
RUN 194 TP 3
LEGEND
SYM CH PARAMETER
70 VEL-3LT
VELOCITY COMPONENT VEL-3LT FPS
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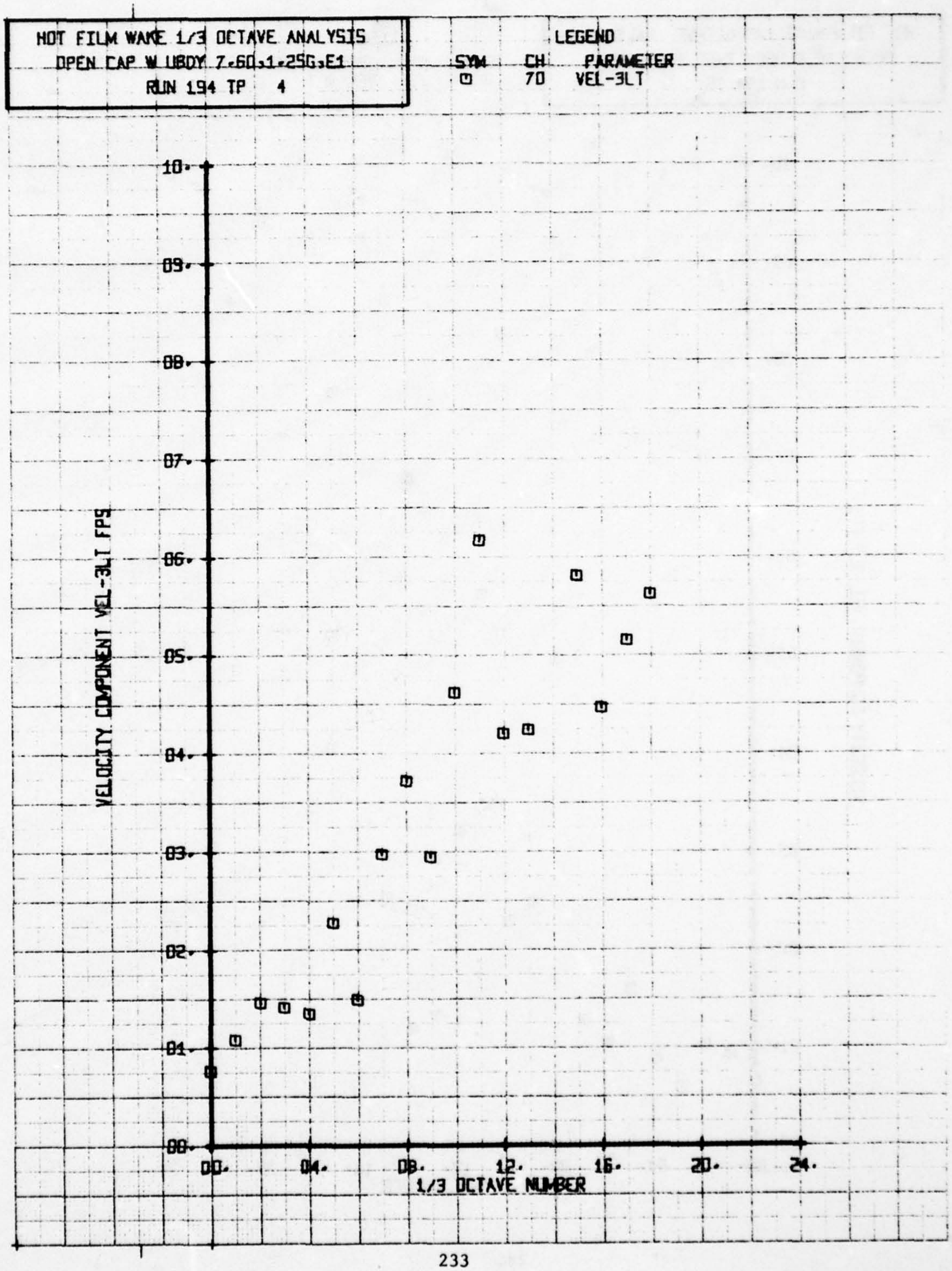
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBDY 7.60,1.25G,E1
RUN 194 TP 4
LEGEND
SYM CH PARAMETER
70 VEL-3LT
VELOCITY COMPONENT VEL-3LT FPS
1/3 OCTAVE NUMBER
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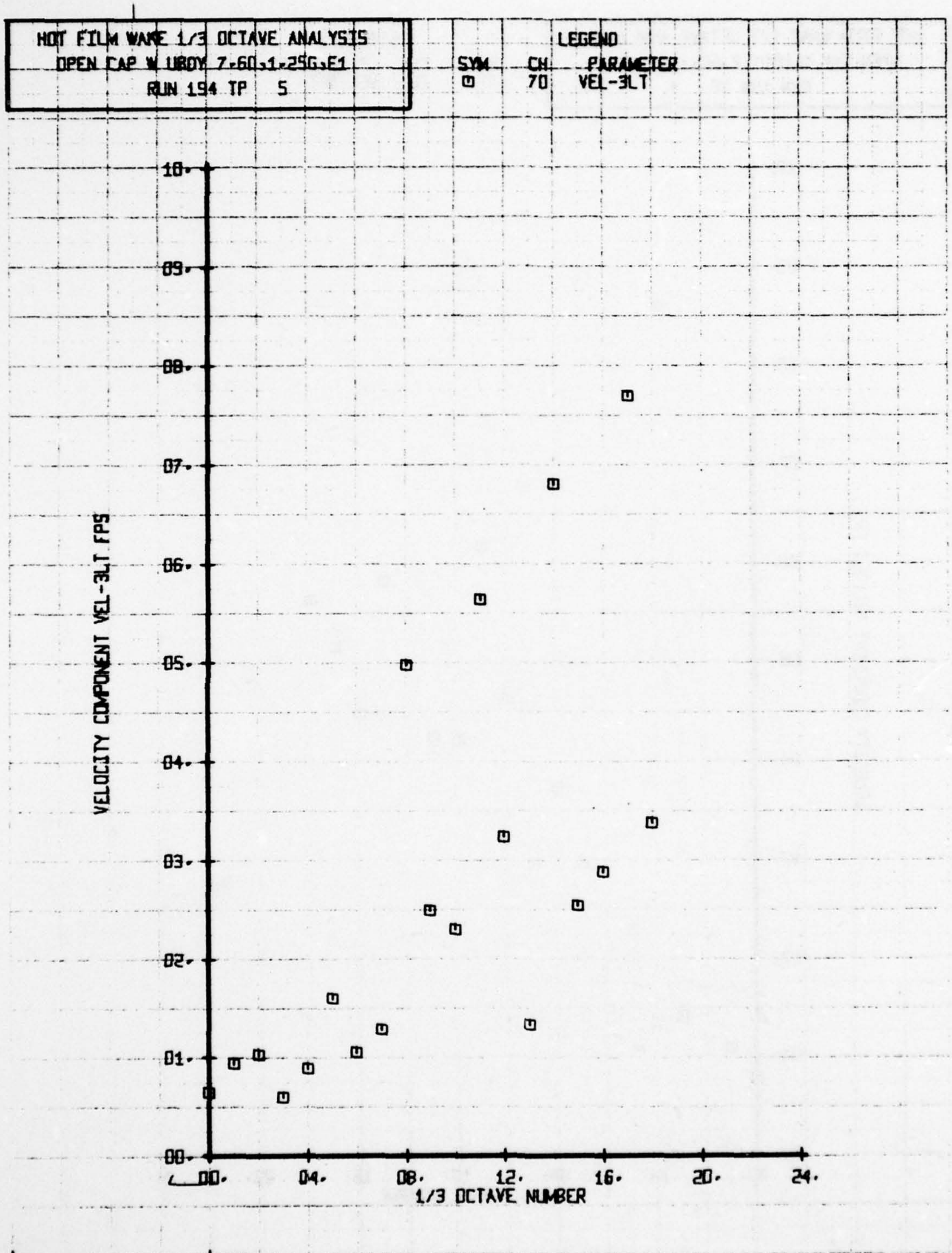
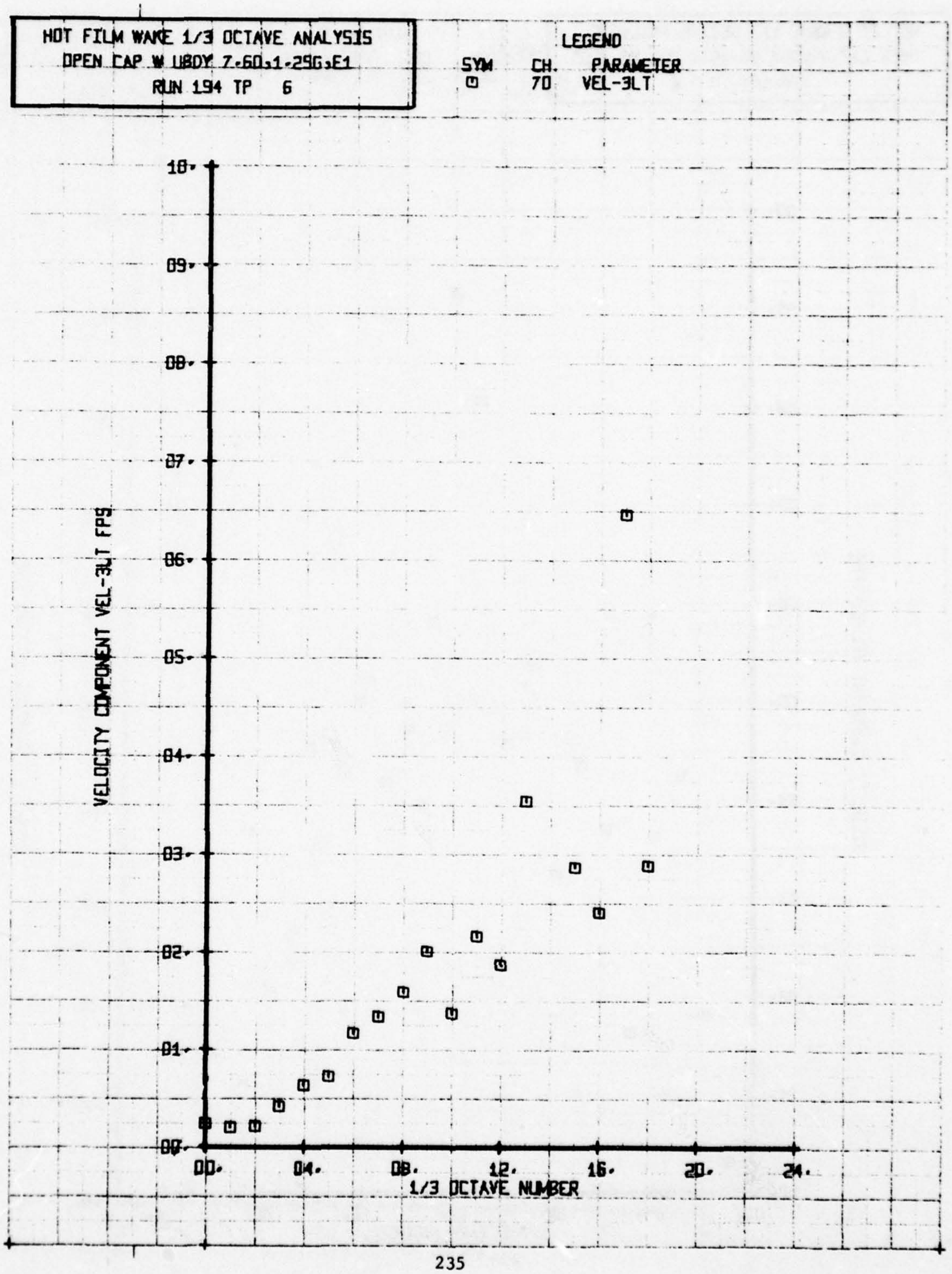

HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBOY 7-60,1-25G,E1
RUN 194 TP 5
LEGEND
SYM CH PARAMETER
70 VEL-3LT
VELOCITY COMPONENT VEL-3LT FPS
1/3 OCTAVE NUMBER
00. 01. 02. 03. 04. 05. 06. 07. 08. 09. 10.
00. 04. 08. 12. 16. 20. 24.


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBDY 7.60,1.29G,E1
RUN 194 TP 6
LEGEND
SYM CH. PARAMETER
70 VEL-3LT
VELOCITY COMPONENT VEL-3LT FPS
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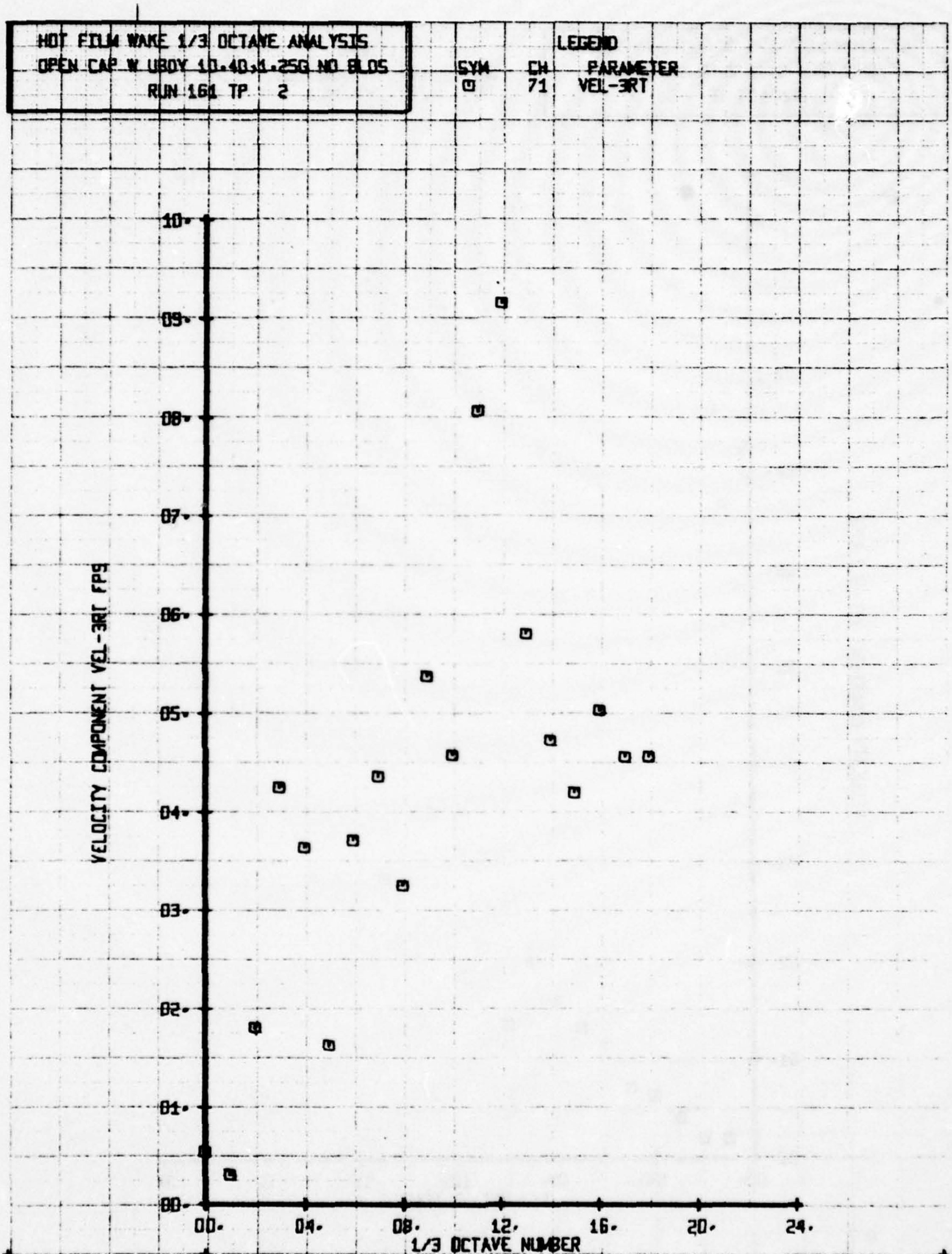
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBOY 10.40.1.25G NO BLDS
RUN 161 TP 2
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
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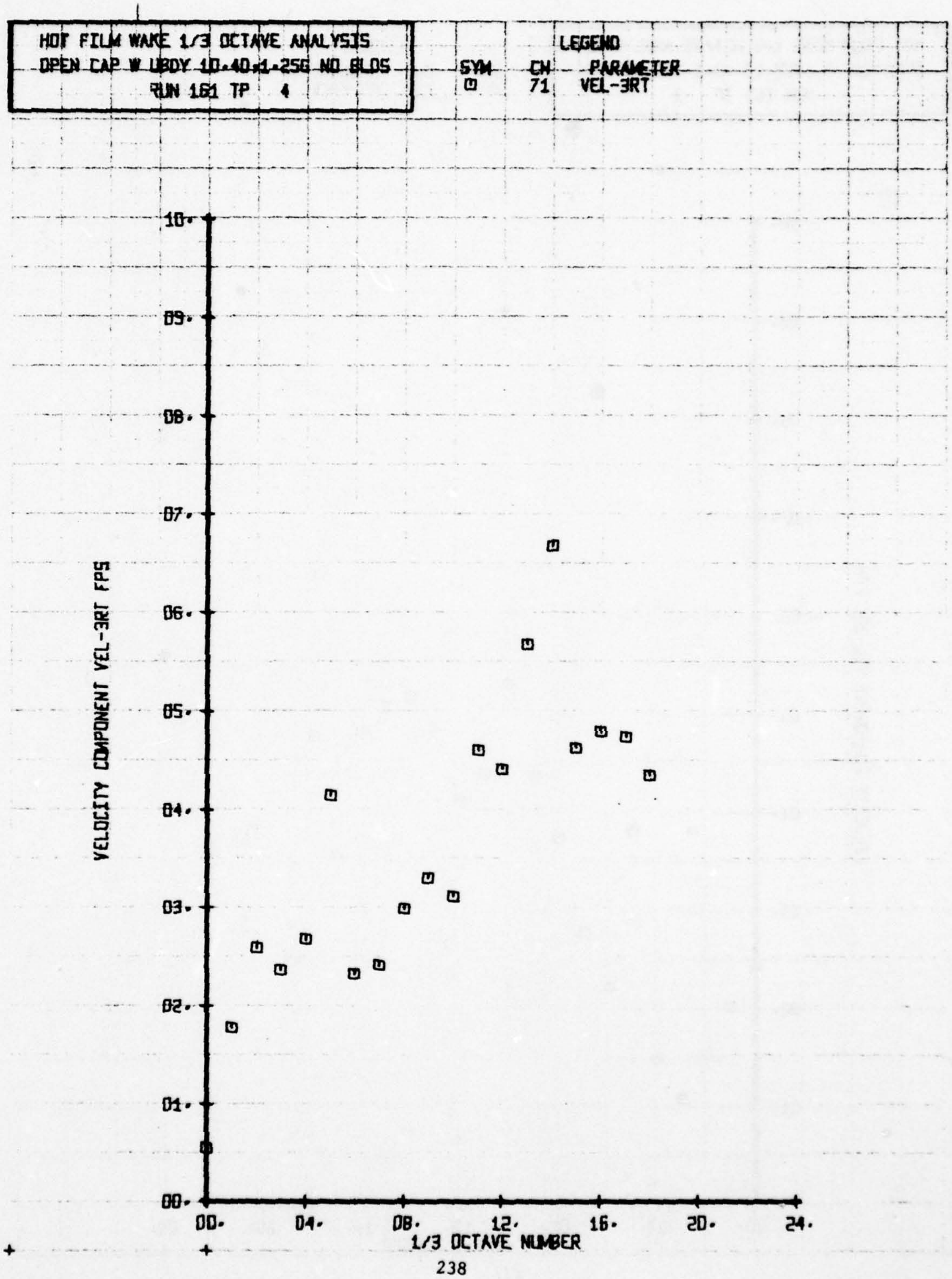
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBDY 1D.4D.1.25G NO BLDS
RUN 161 TP 4
LEGEND
SYM CN PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
1/3 OCTAVE NUMBER
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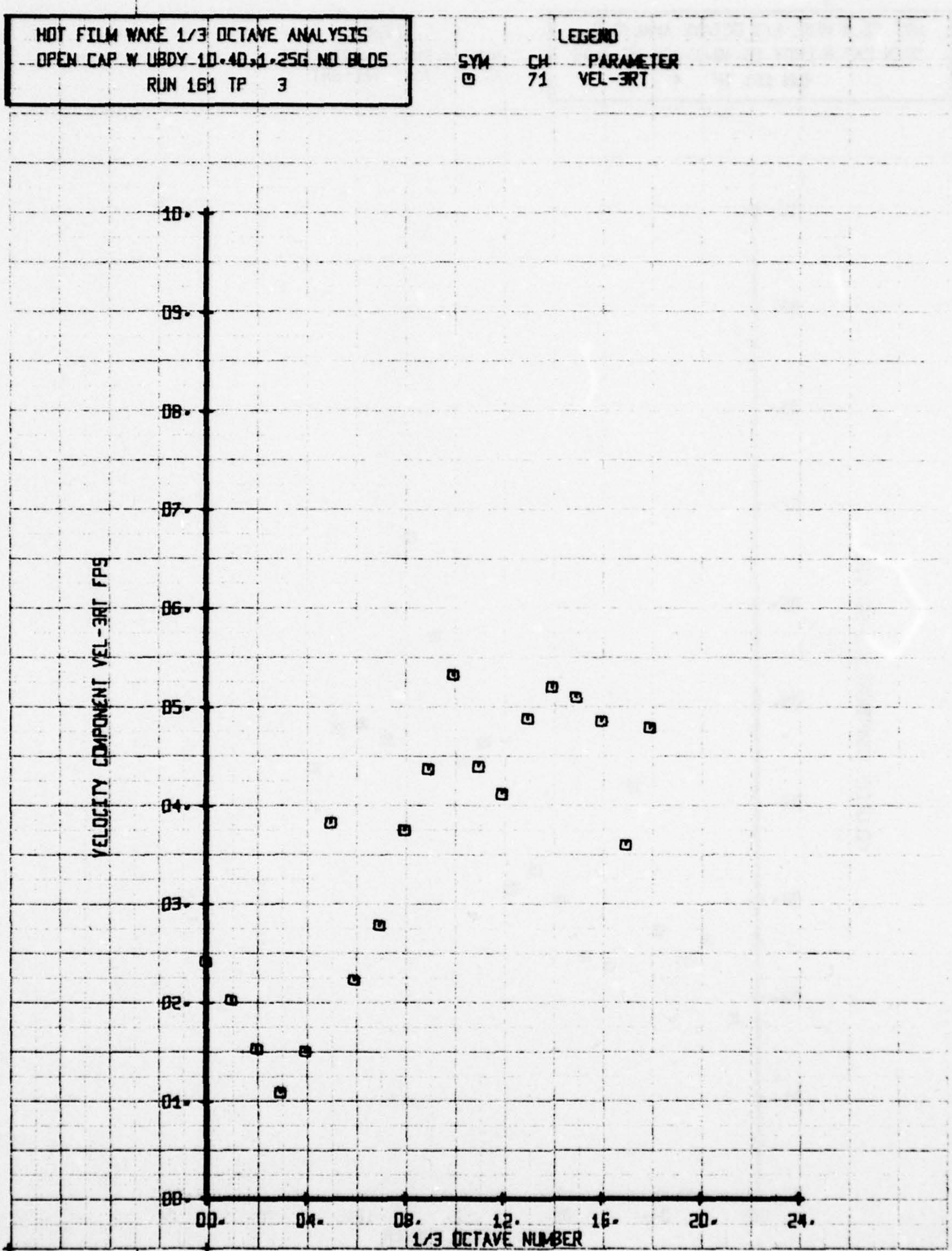

HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBDY 1D.4D,1.25G NO BLDS
RUN 161 TP 3
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
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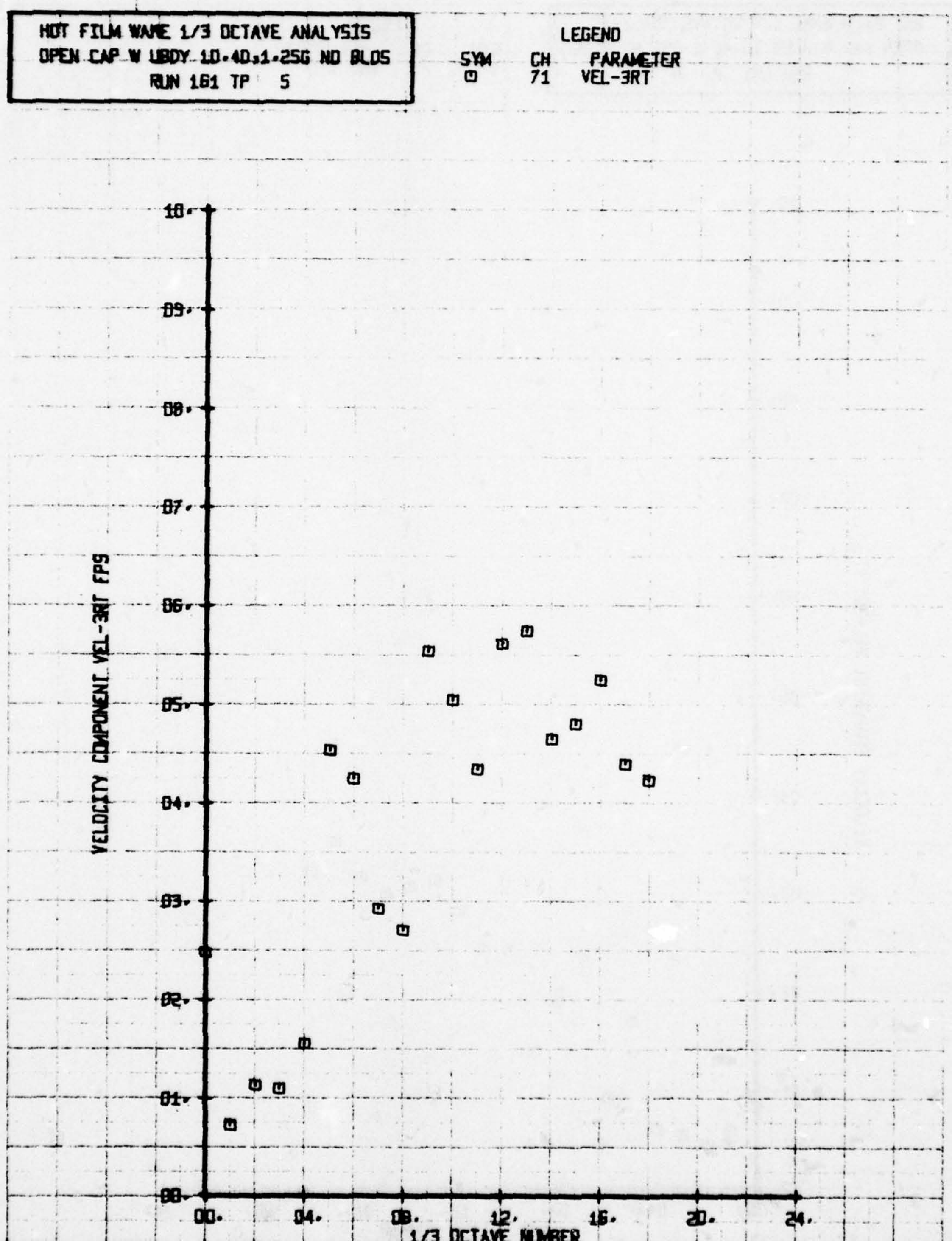
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBDY 1D.4D,1.25G NO BLDS
RUN 161 TP 5
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
1/3 OCTAVE NUMBER
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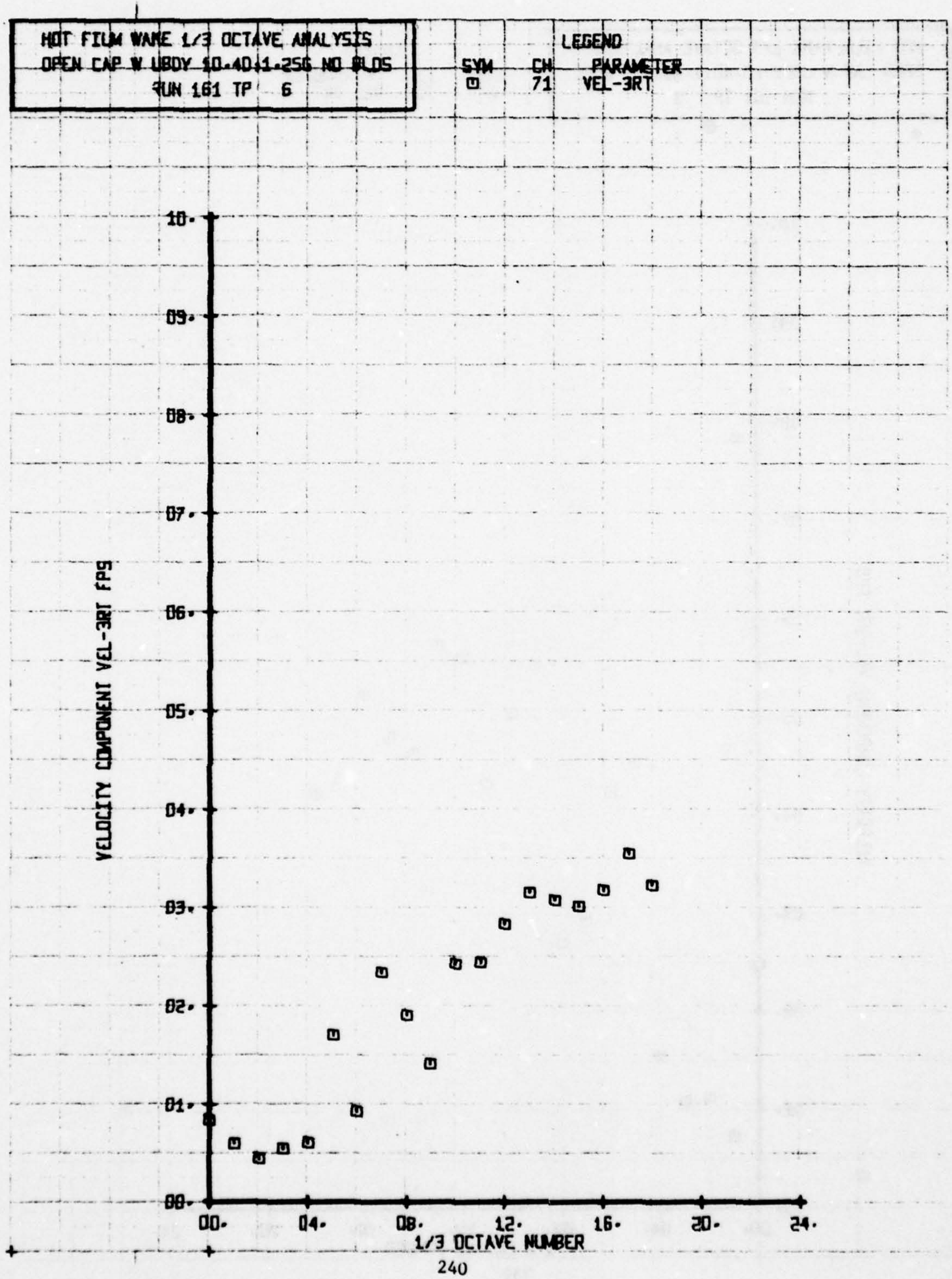

HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBDY 10.40.1.256 NO BLDS
RUN 161 TP 6
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
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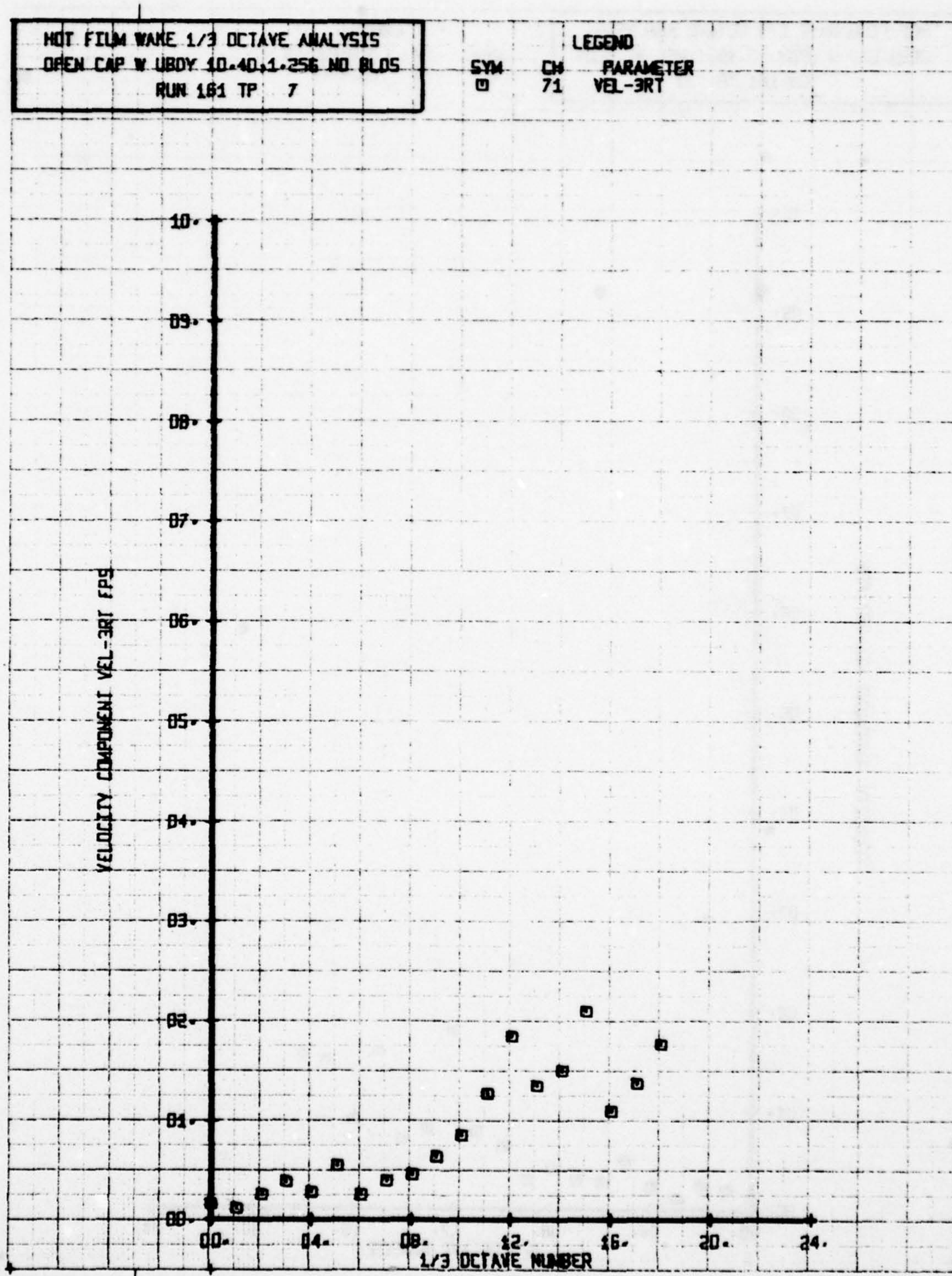
24.
1/3 OCTAVE NUMBER



HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBDY 10.40,1.256 NO BLDS
RUN 181 TP 7
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
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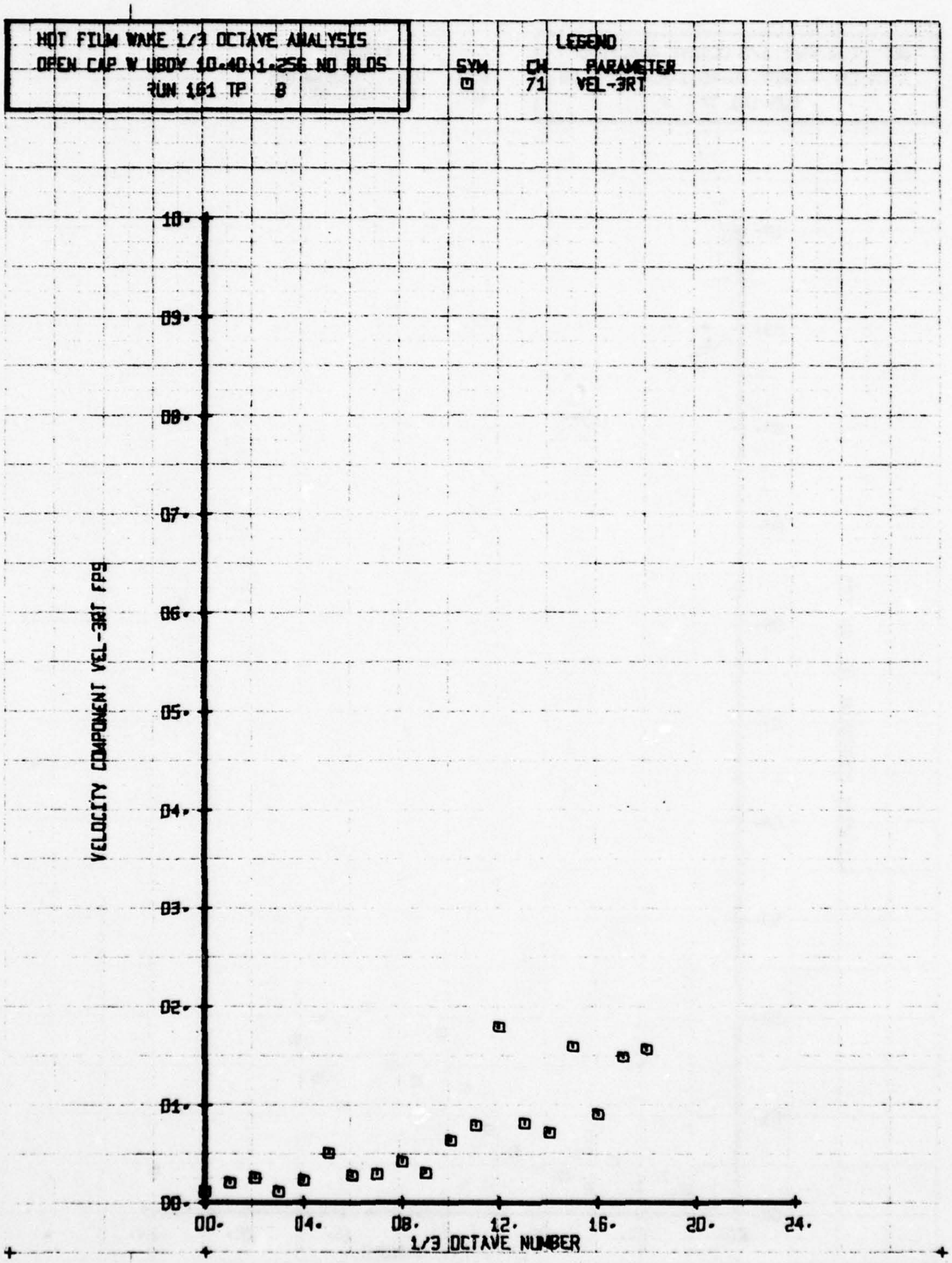
1/3 OCTAVE NUMBER



HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBDY 10-40-1-256 NO BLDS
RUN 161 TP 8
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
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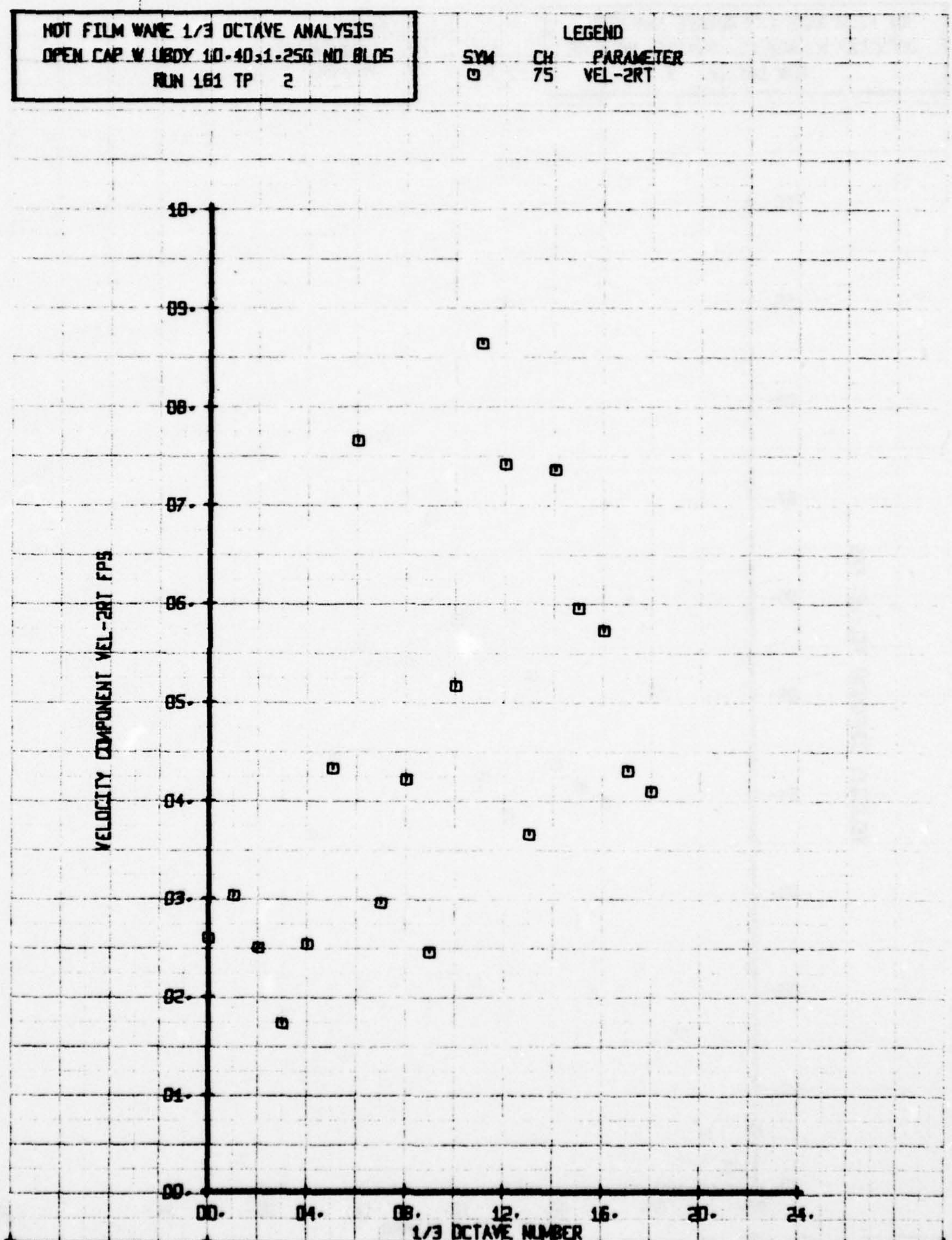
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBDY 10.40,1.25G NO BLDS
RUN 161 TP 2
LEGEND
SYM CH PARAMETER
75 VEL-2RT
VELOCITY COMPONENT VEL-2RT FPS
1/3 OCTAVE NUMBER
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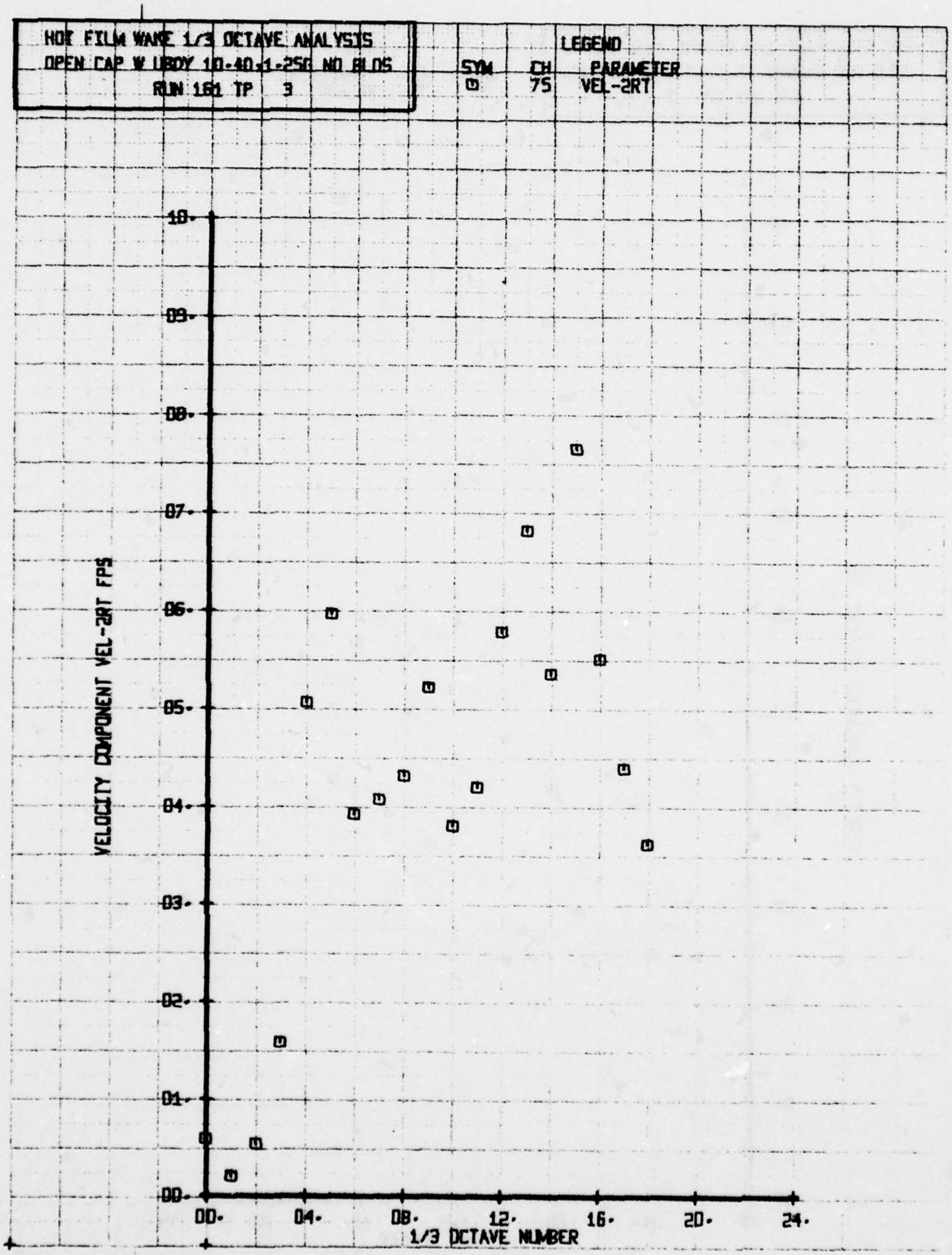
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBOY 10-40-1-250 NO BLDS
RUN 161 TP 3
LEGEND
SYM CH PARAMETER
75 VEL-2RT
VELOCITY COMPONENT VEL-2RT FPS
1/3 OCTAVE NUMBER
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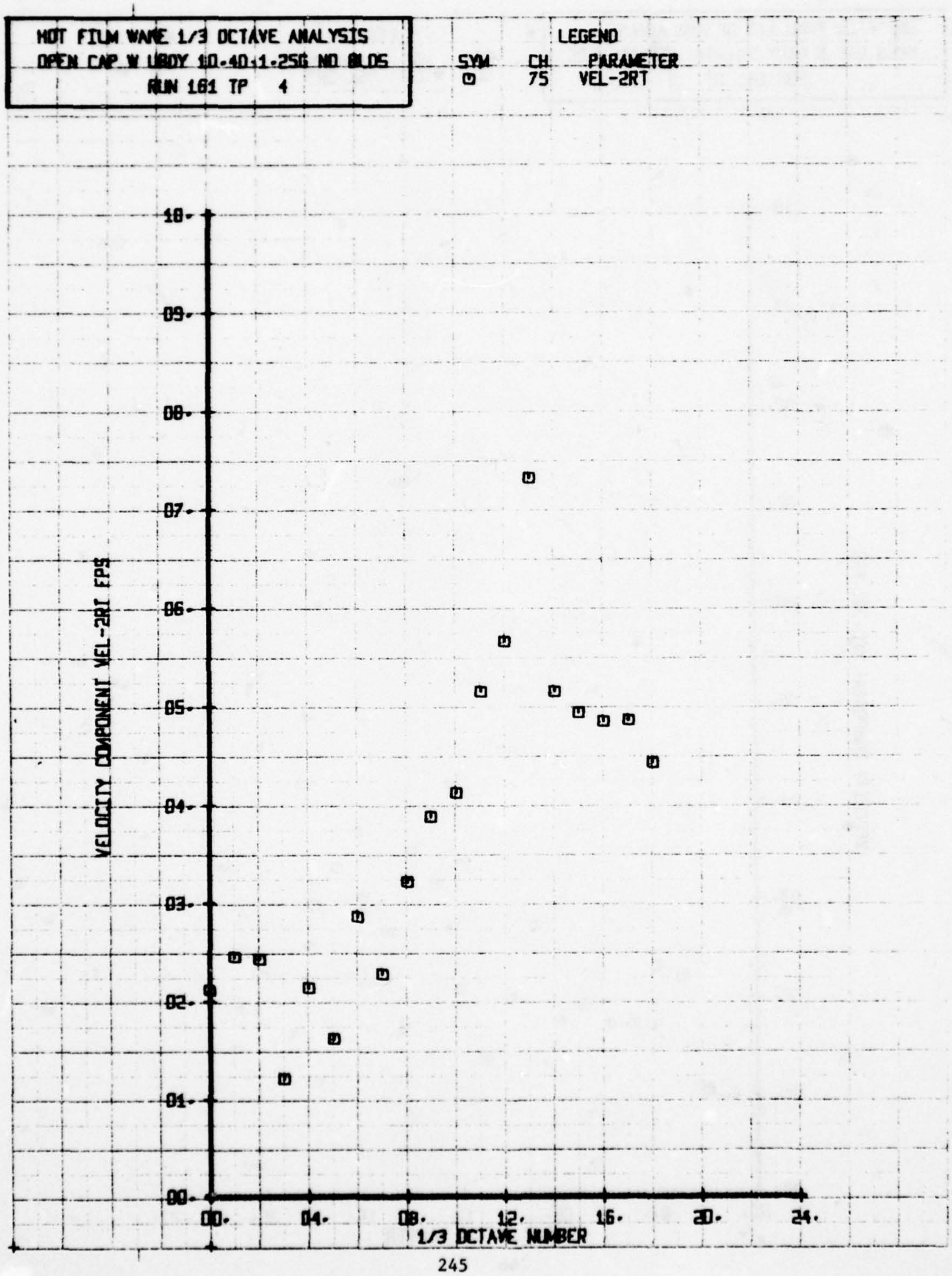
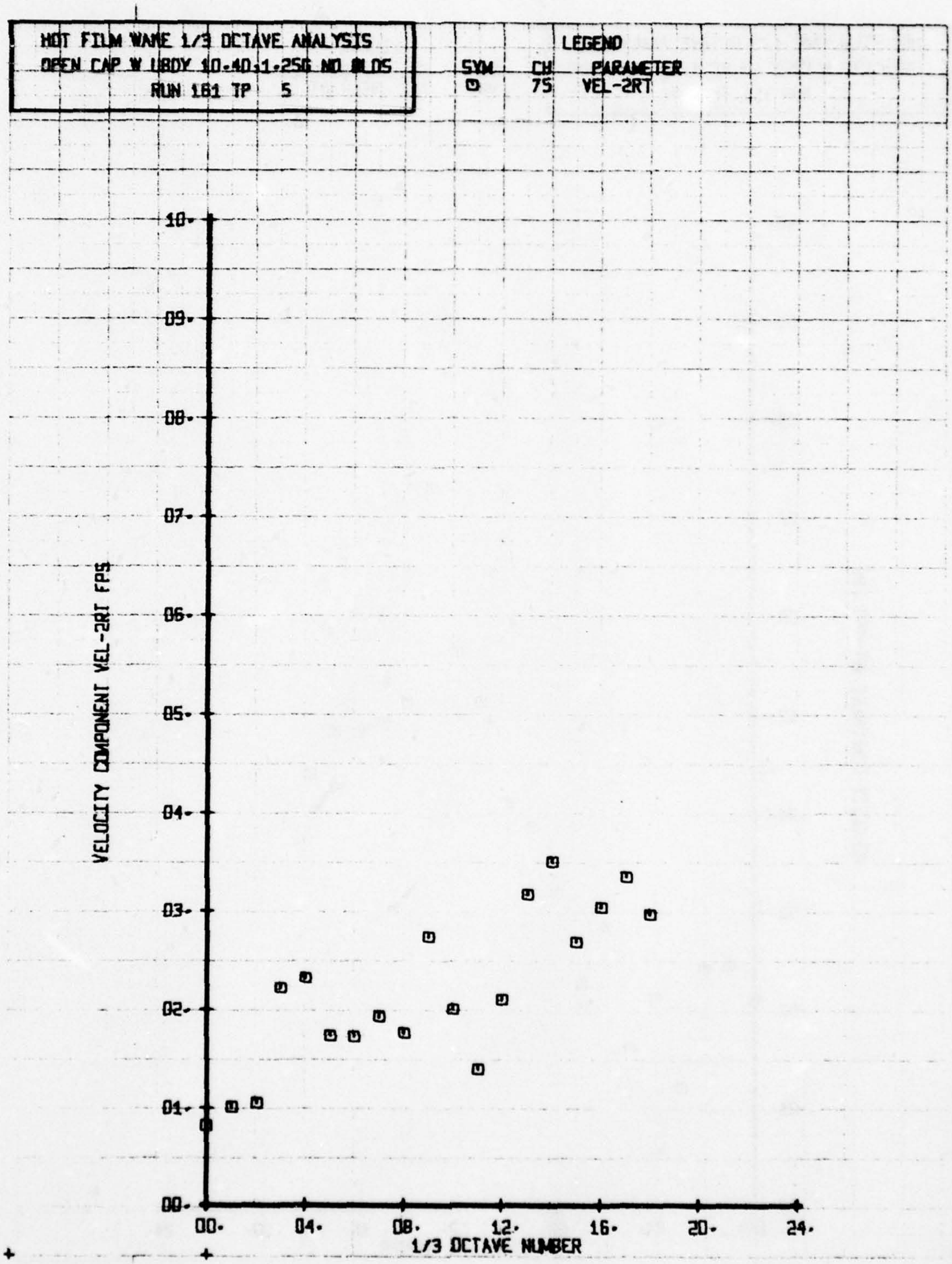

HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBDY 10.40.1.25G NO BLDS
RUN 161 TP 4
LEGEND
SYM CH PARAMETER
75 VEL-2RT
VELOCITY COMPONENT VEL-2RT FPS
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBDY 10.40.1.25G NO BLDS
RUN 161 TP 5
LEGEND
SYM CH PARAMETER
75 VEL-2RT
VELOCITY COMPONENT VEL-2RT FPS
1/3 OCTAVE NUMBER
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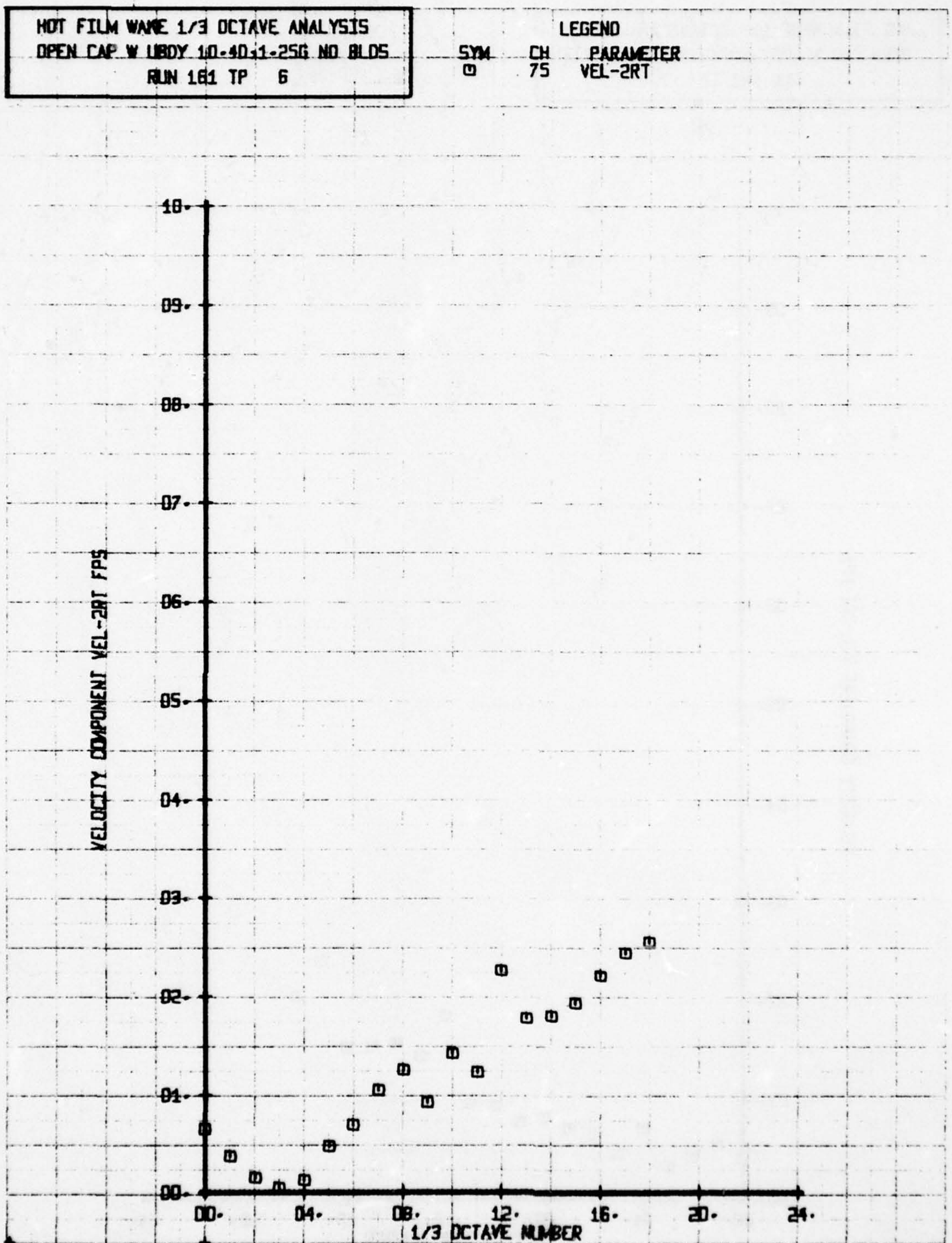

HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBDY 10-4D-1-25G NO BLDS
RUN 181 TP 6
LEGEND
SYM CH PARAMETER
75 VEL-2RT
VELOCITY COMPONENT VEL-2RT FPS
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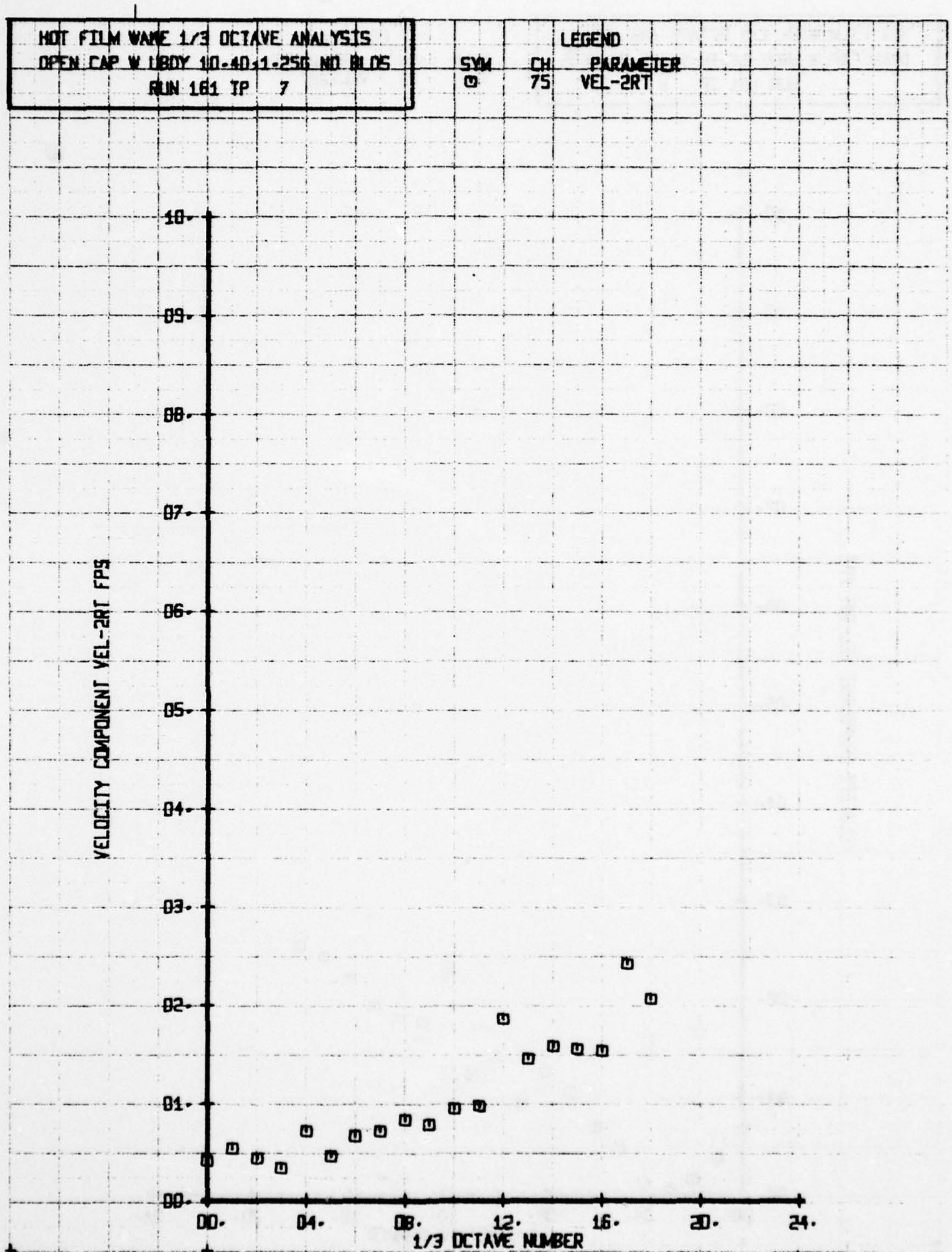
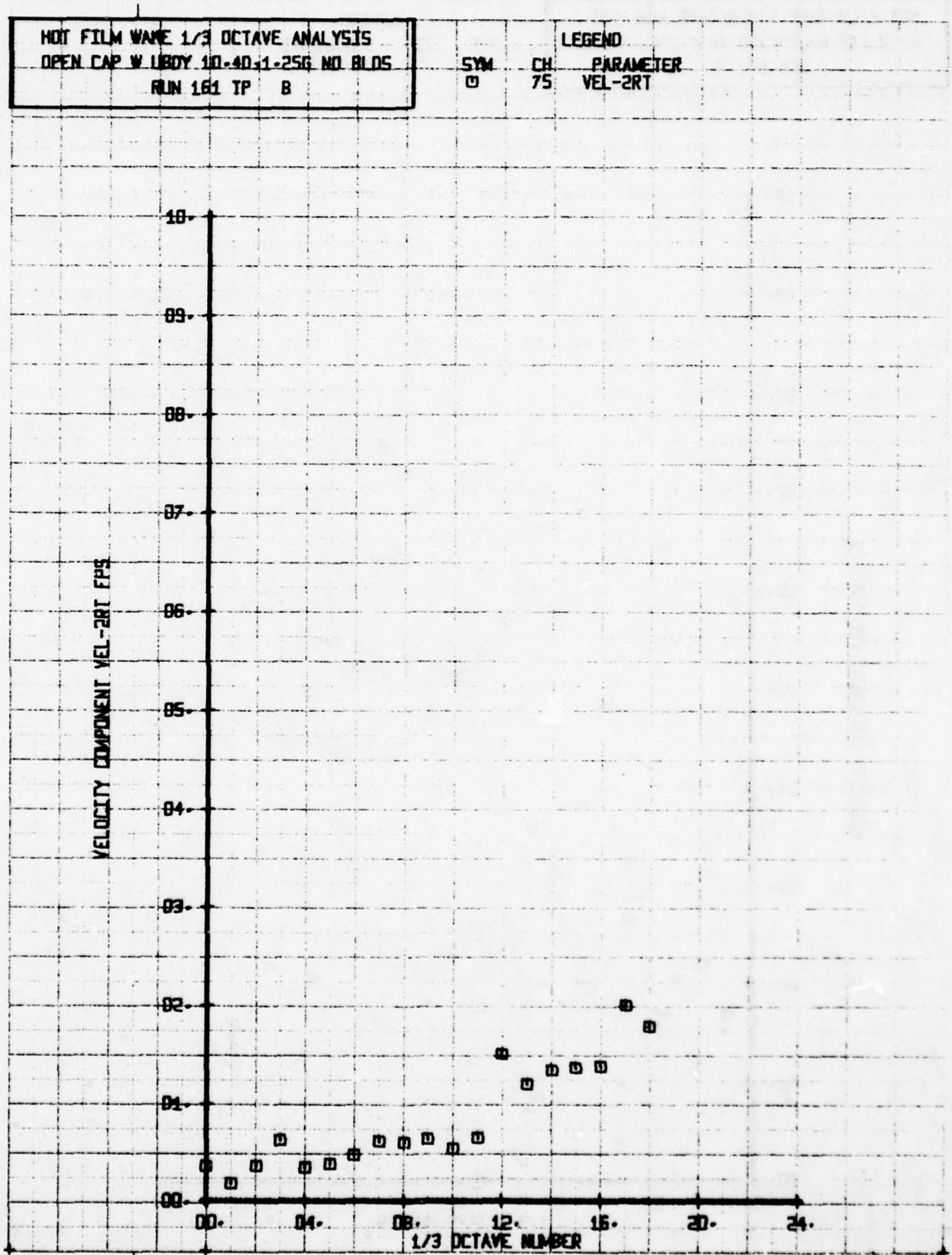
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBOY 10-40-1-25G NO BLDS
RUN 161 TP 7
LEGEND
SYM CH PARAMETER
75 VEL-2RT
VELOCITY COMPONENT VEL-2RT FPS
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBOY 10.40,1.25G NO BLDS
RUN 161 TP B
LEGEND
SYM CH PARAMETER
75 VEL-2RT
VELOCITY COMPONENT VEL-2RT FPS
1/3 OCTAVE NUMBER
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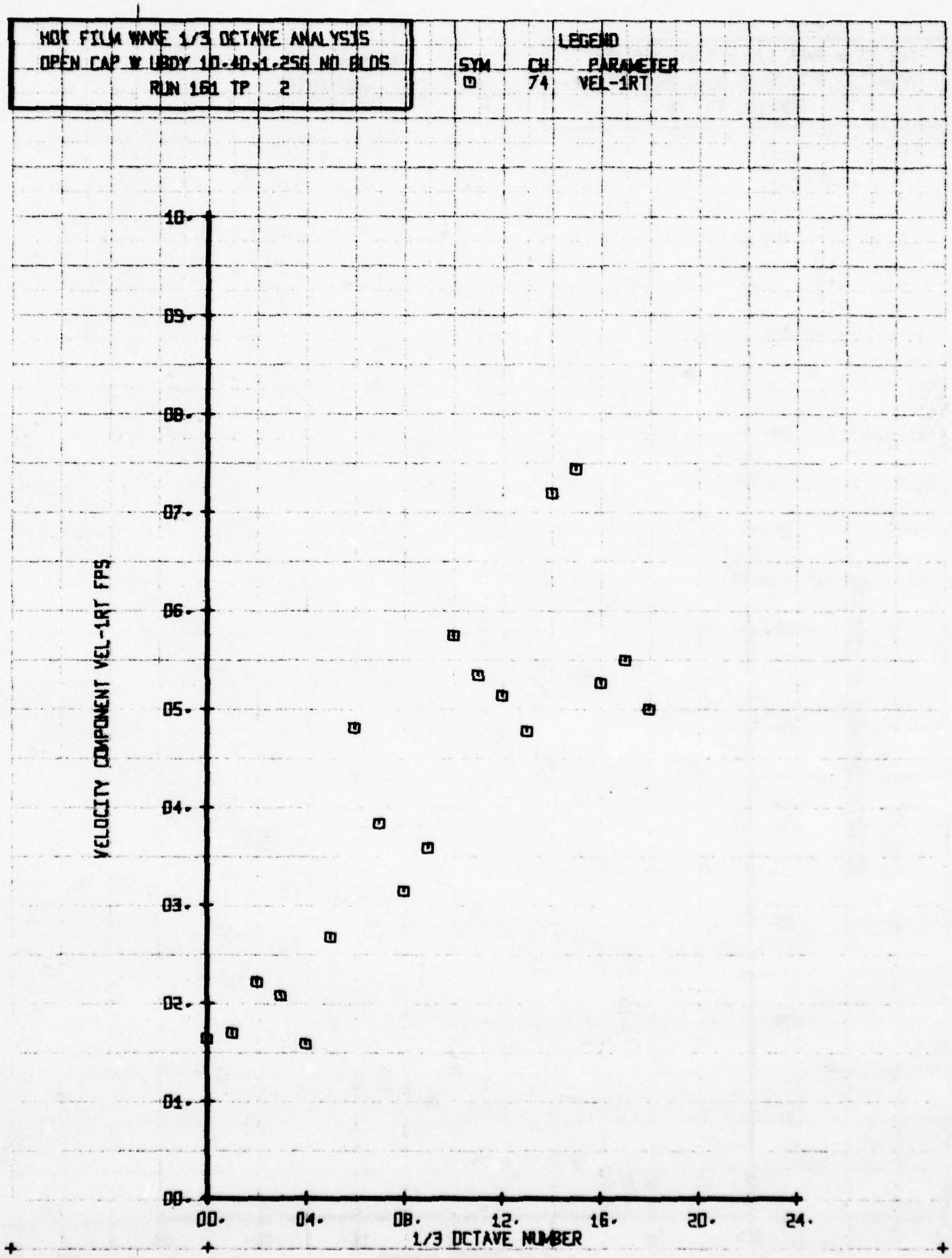
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBDY 10.40,1.25G NO BLDS
RUN 161 TP 2
LEGEND
SYM CH PARAMETER
74 VEL-1RT
VELOCITY COMPONENT VEL-1RT FPS
1/3 OCTAVE NUMBER
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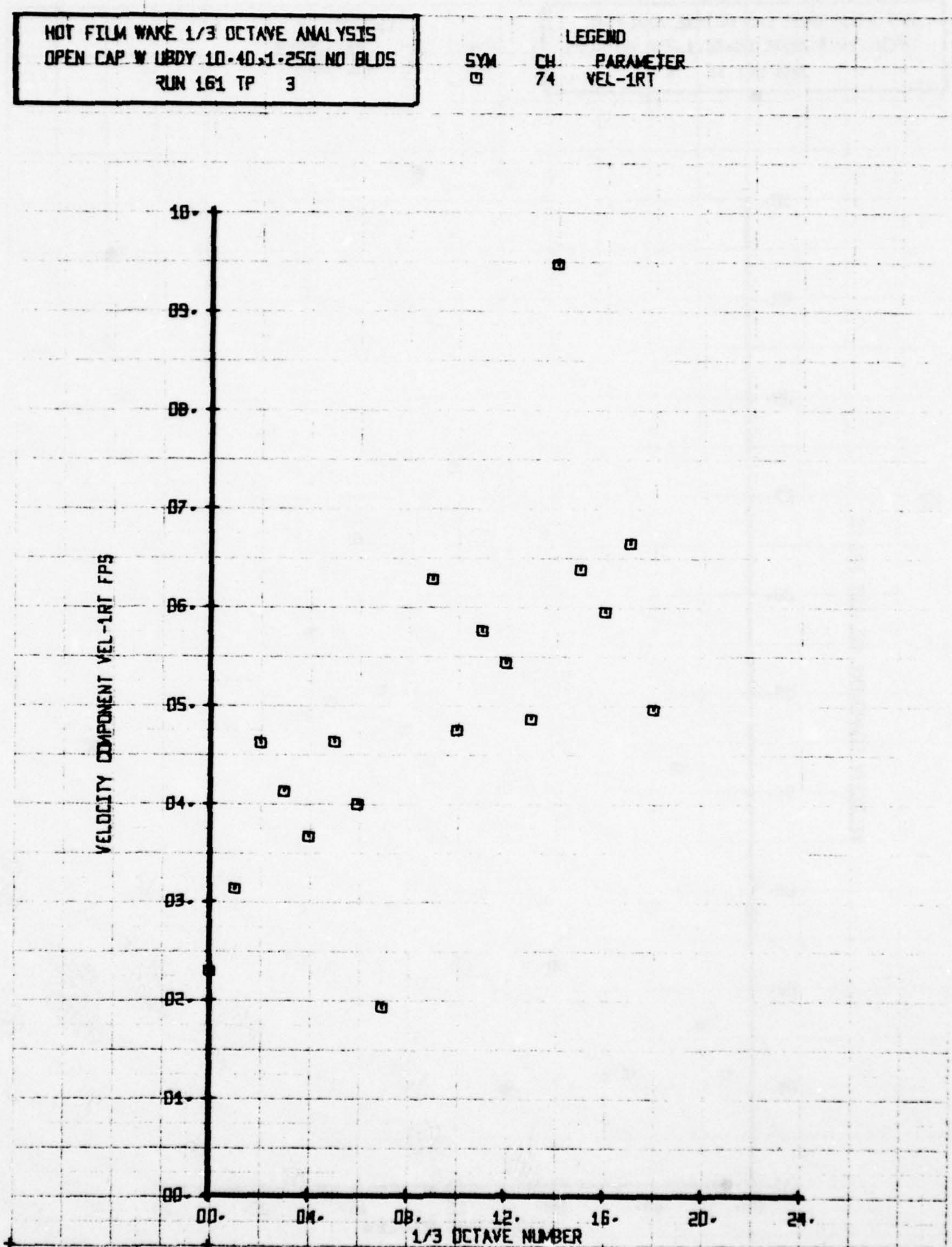
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBDY 10.40,1.25G NO BLDS
RUN 161 TP 3
LEGEND
SYM CH PARAMETER
74 VEL-1RT
VELOCITY COMPONENT VEL-1RT FPS
1/3 OCTAVE NUMBER
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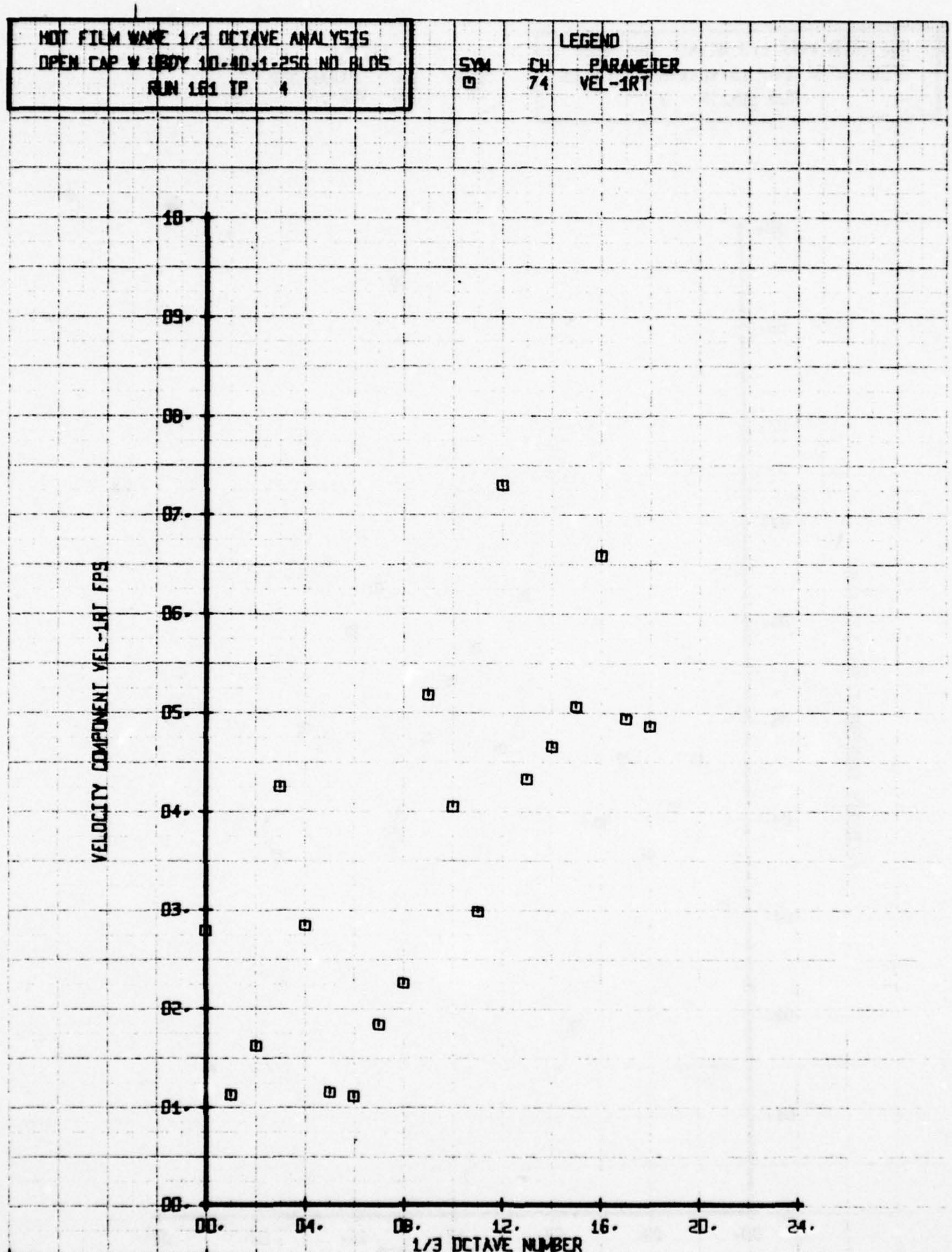
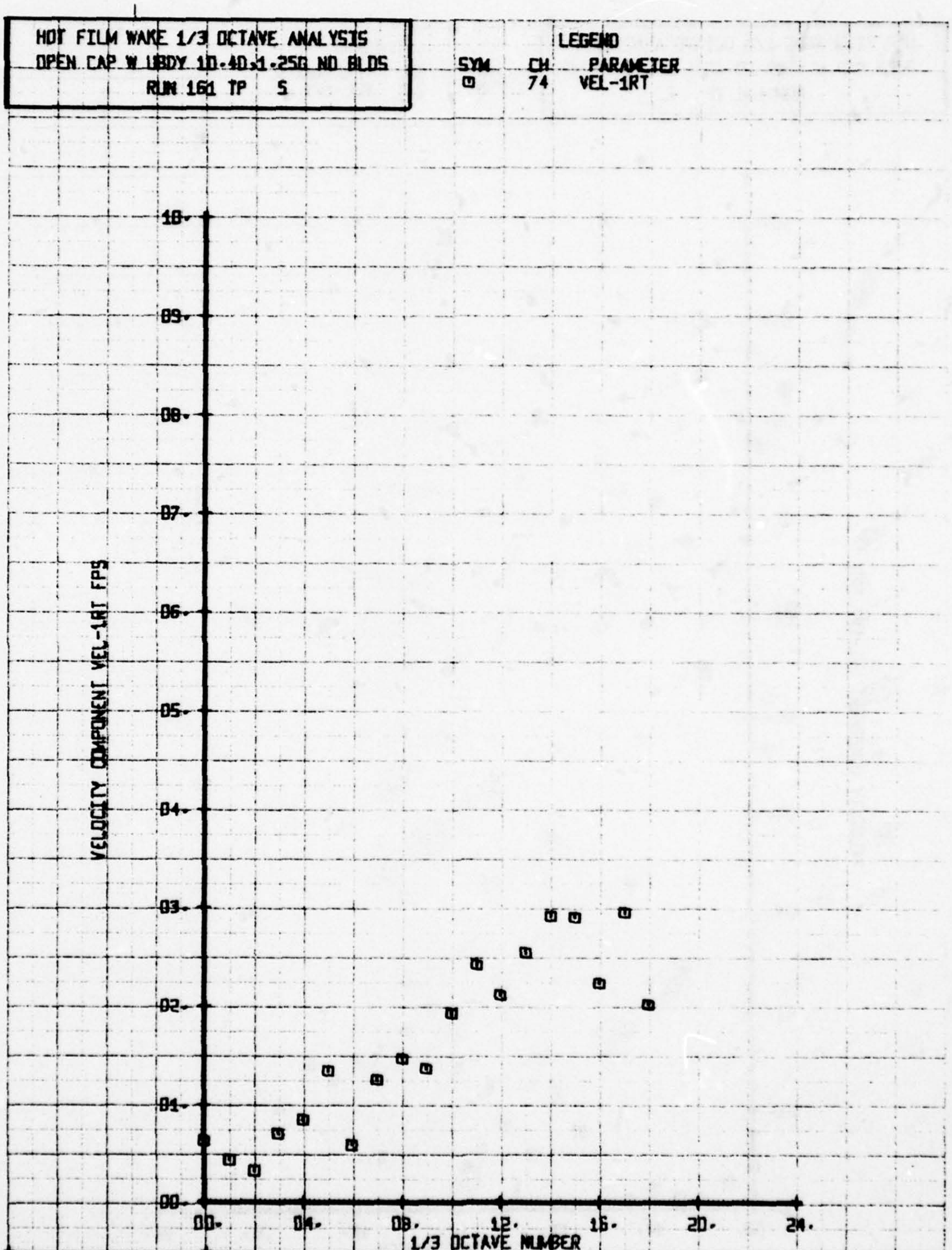
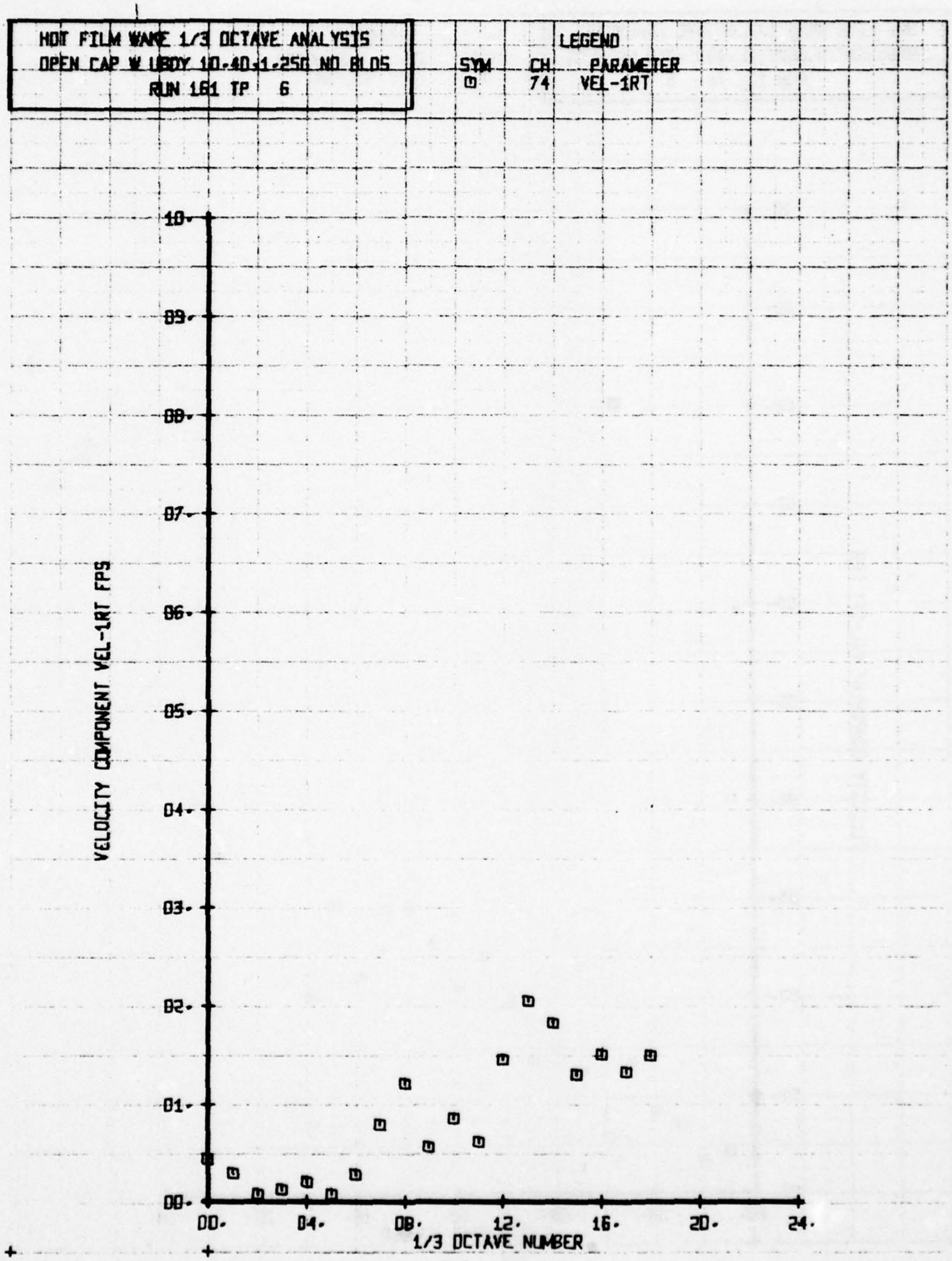
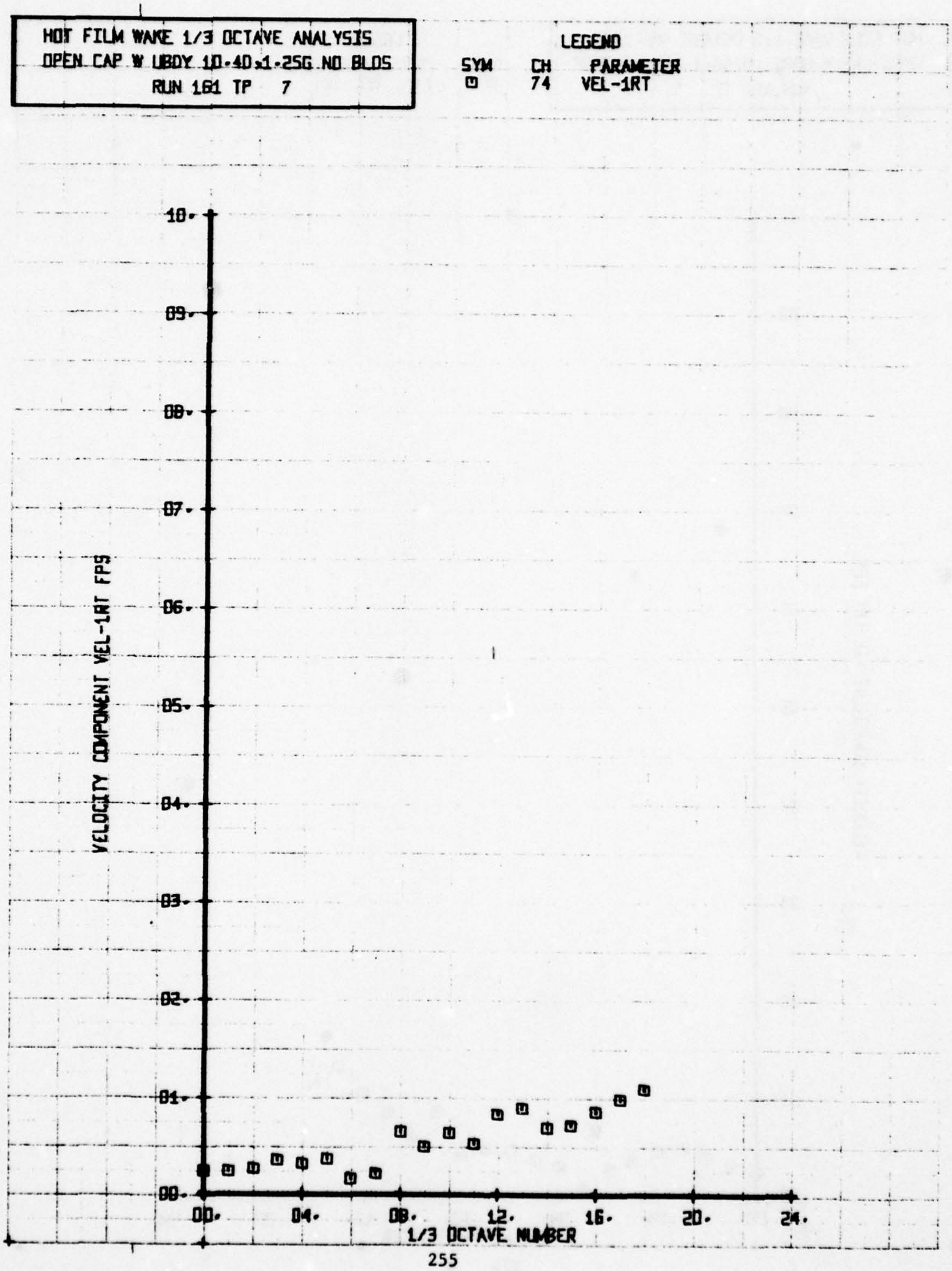


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBOY 10.40.1-250 NO BLDS
RUN 161 TP 4
LEGEND
SYM CH PARAMETER
74 VEL-1RT
VELOCITY COMPONENT VEL-1RT FPS
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBDY 1D.4D.1.25D NO BLDS
RUN 161 TP 5
LEGEND
SYM CH PARAMETER
74 VEL-1RT
VELOCITY COMPONENT VEL-1RT FPS
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBDY 10.40.1.250 NO BLDS
RUN 161 TP 6
LEGEND
SYM CH PARAMETER
74 VEL-1RT
VELOCITY COMPONENT VEL-1RT FPS
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBDY 10.40x1.25G NO BLDS
RUN 161 TP 7
LEGEND
SYM CH PARAMETER
□ 74 VEL-1RT
VELOCITY COMPONENT VEL-1RT FPS
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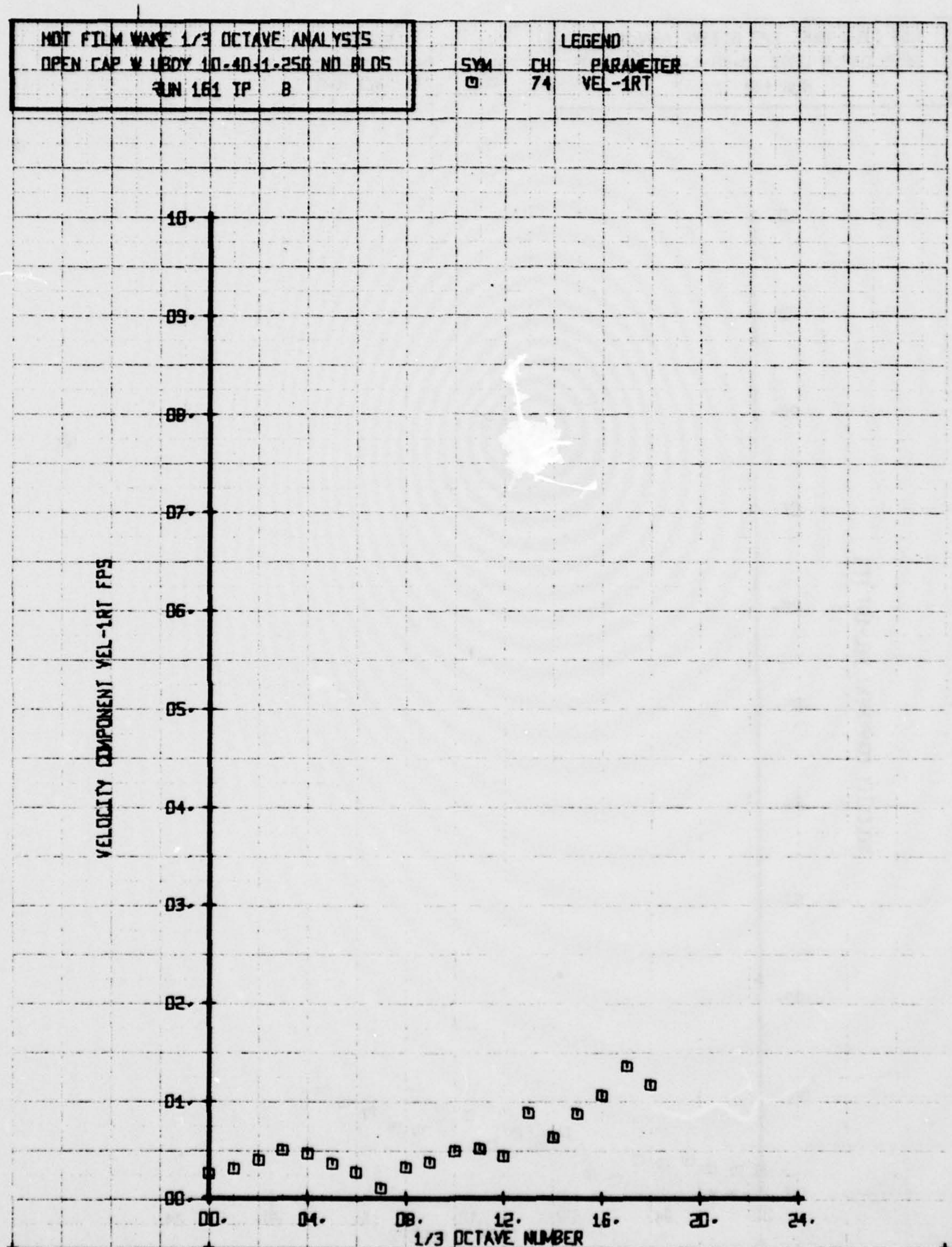
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBOY 10-40-1-25G NO BLDS
RUN 161 IP B
LEGEND
SYM CH PARAMETER
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VELOCITY COMPONENT VEL-1RT FPS
1/3 OCTAVE NUMBER
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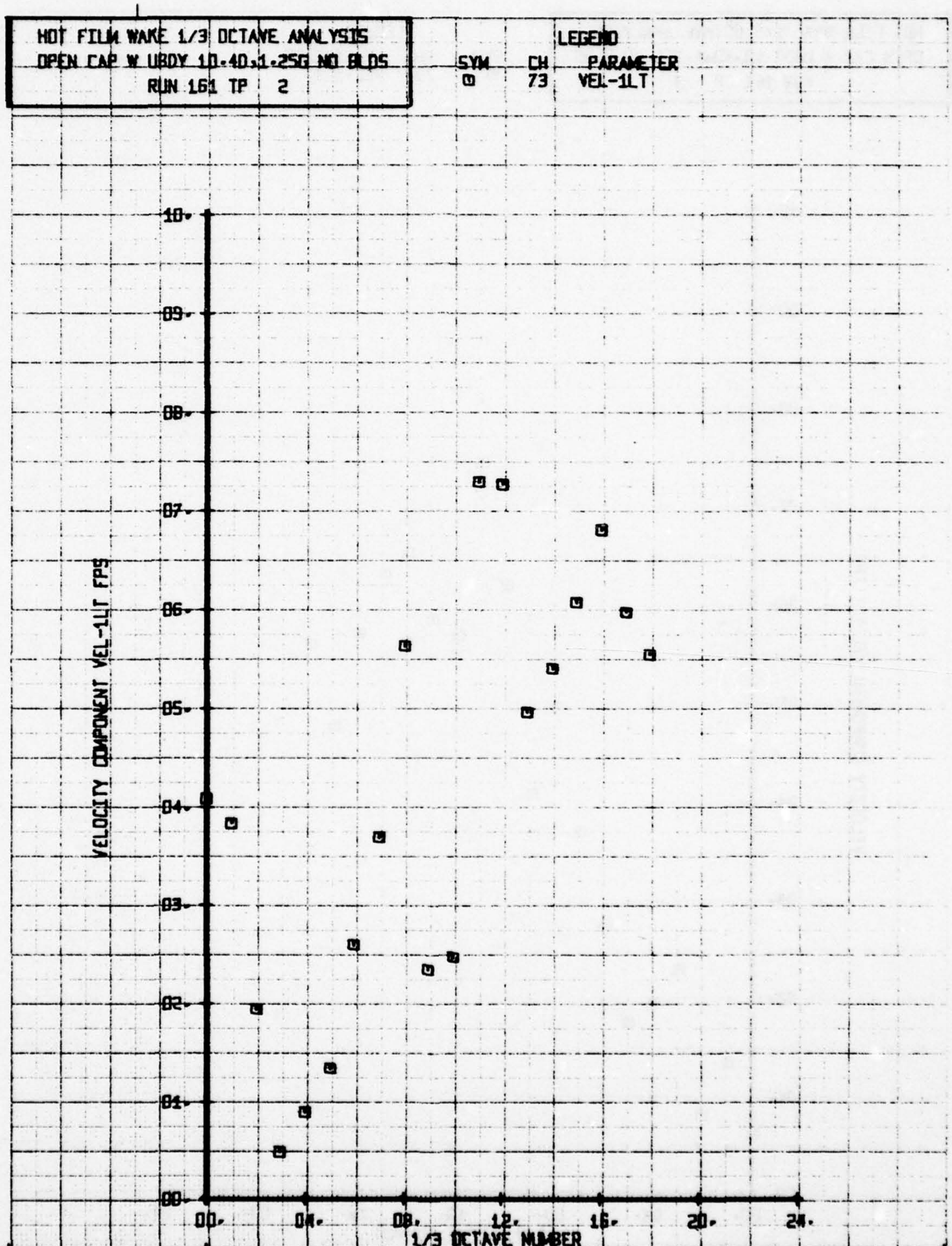
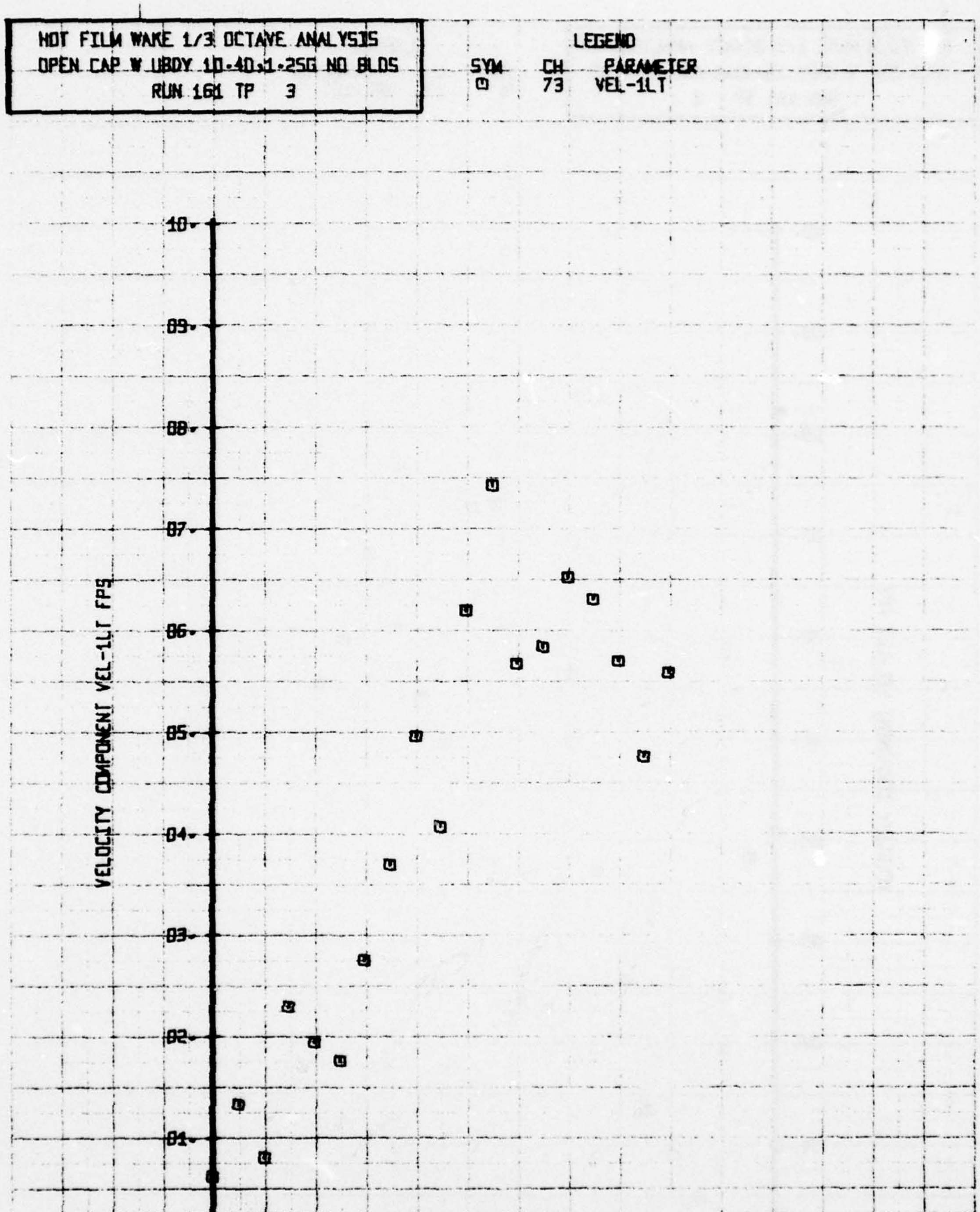


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBDY 10.4D,1.25G NO BLDS
RUN 161 TP 2
LEGEND
SYM CH PARAMETER
73 VEL-1LT
VELOCITY COMPONENT VEL-1LT FPS
1/3 OCTAVE NUMBER



HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBDY 10.40,1.25G NO BLDS
RUN 161 TP 3
LEGEND
SYM CH PARAMETER
73 VEL-1LT
VELOCITY COMPONENT VEL-1LT FPS
1/3 OCTAVE NUMBER
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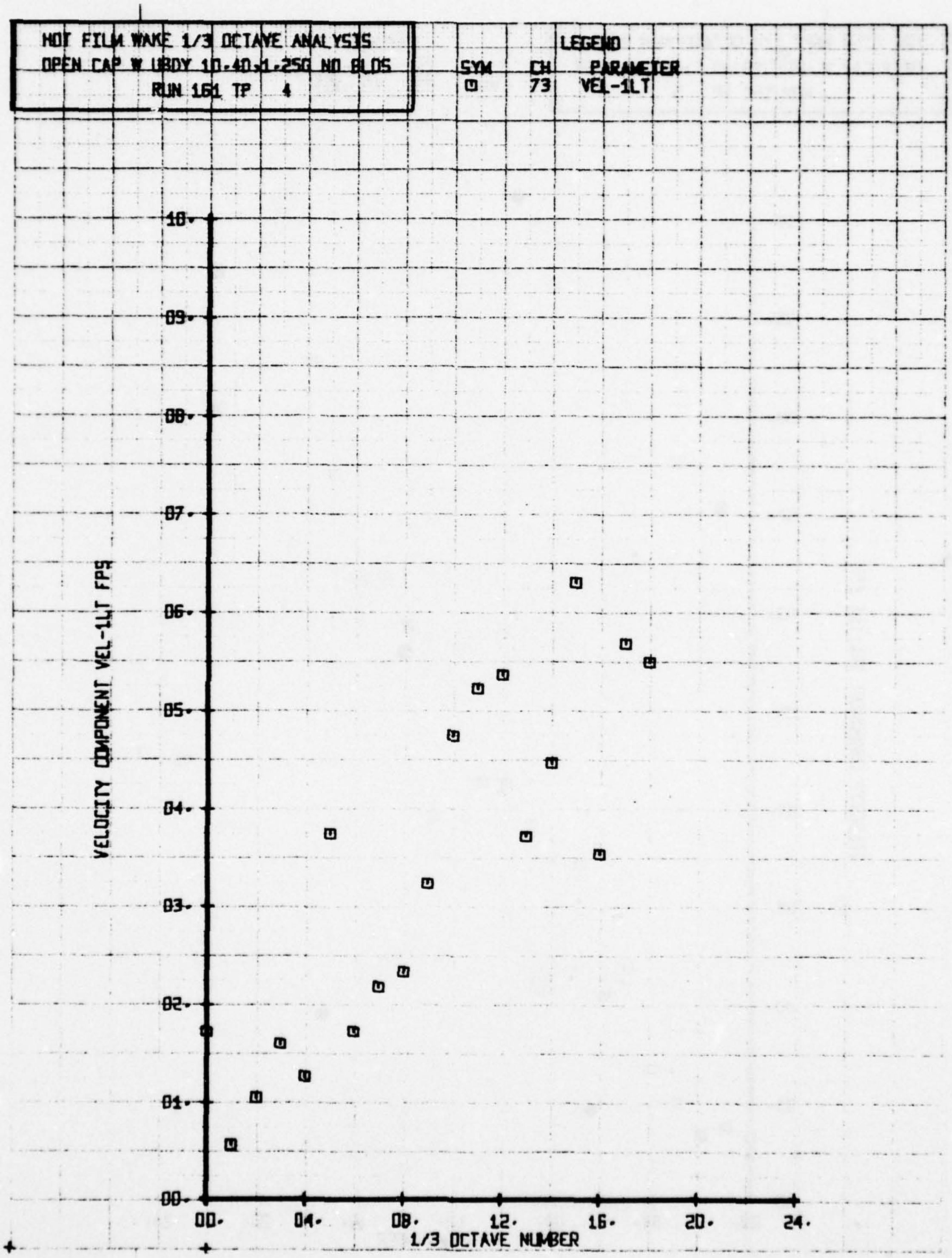
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBDY 10.40.1.25G NO BLDS
RUN 161 TP 4
LEGEND
SYM CH PARAMETER
73 VEL-1LT
VELOCITY COMPONENT VEL-1LT FPS
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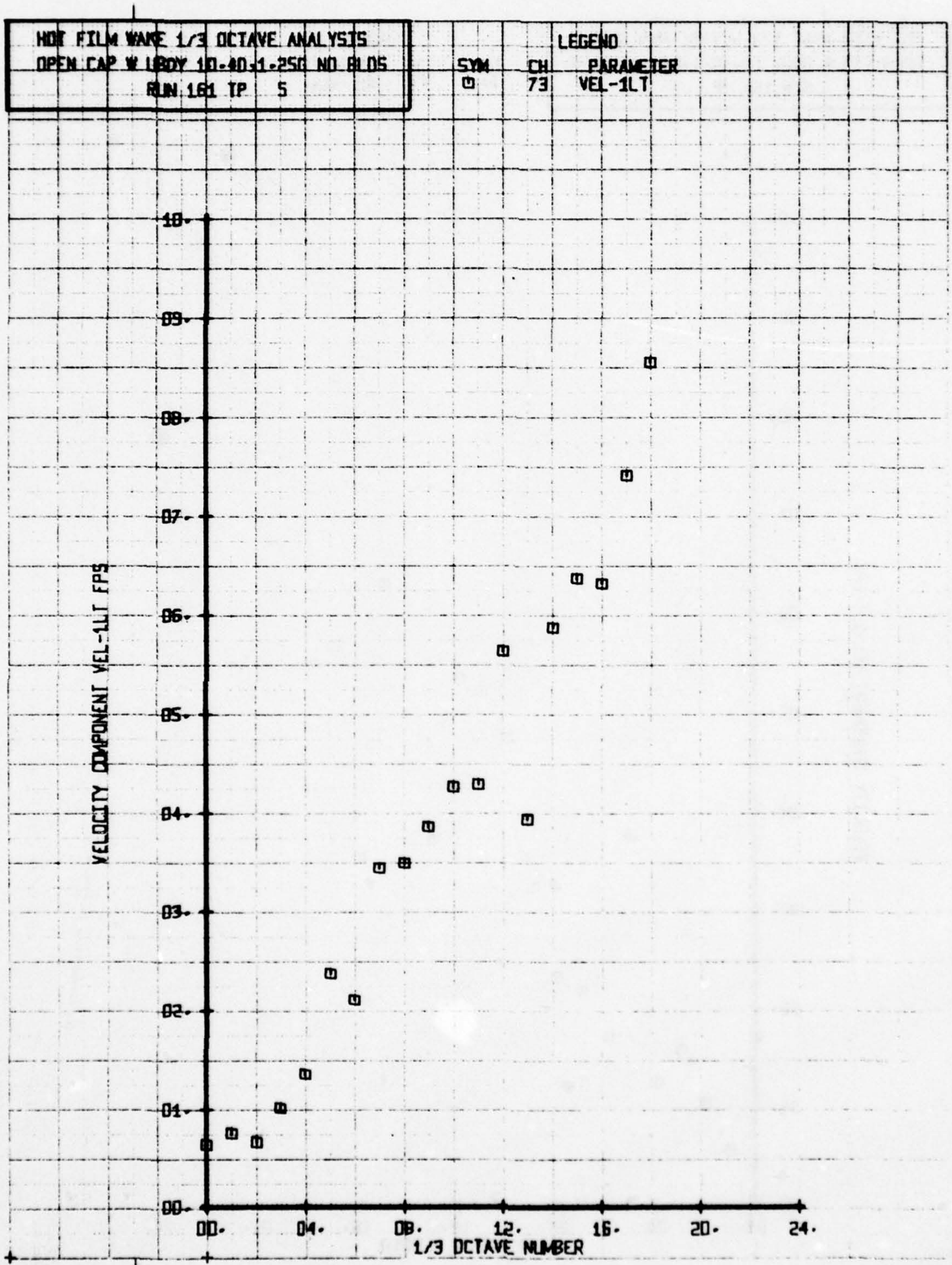
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W LBDY 10-40-1-250 NO BLDS
RUN 161 TP 5
LEGEND
SYM CH PARAMETER
73 VEL-1LT
VELOCITY COMPONENT VEL-1LT FPS
1/3 OCTAVE NUMBER
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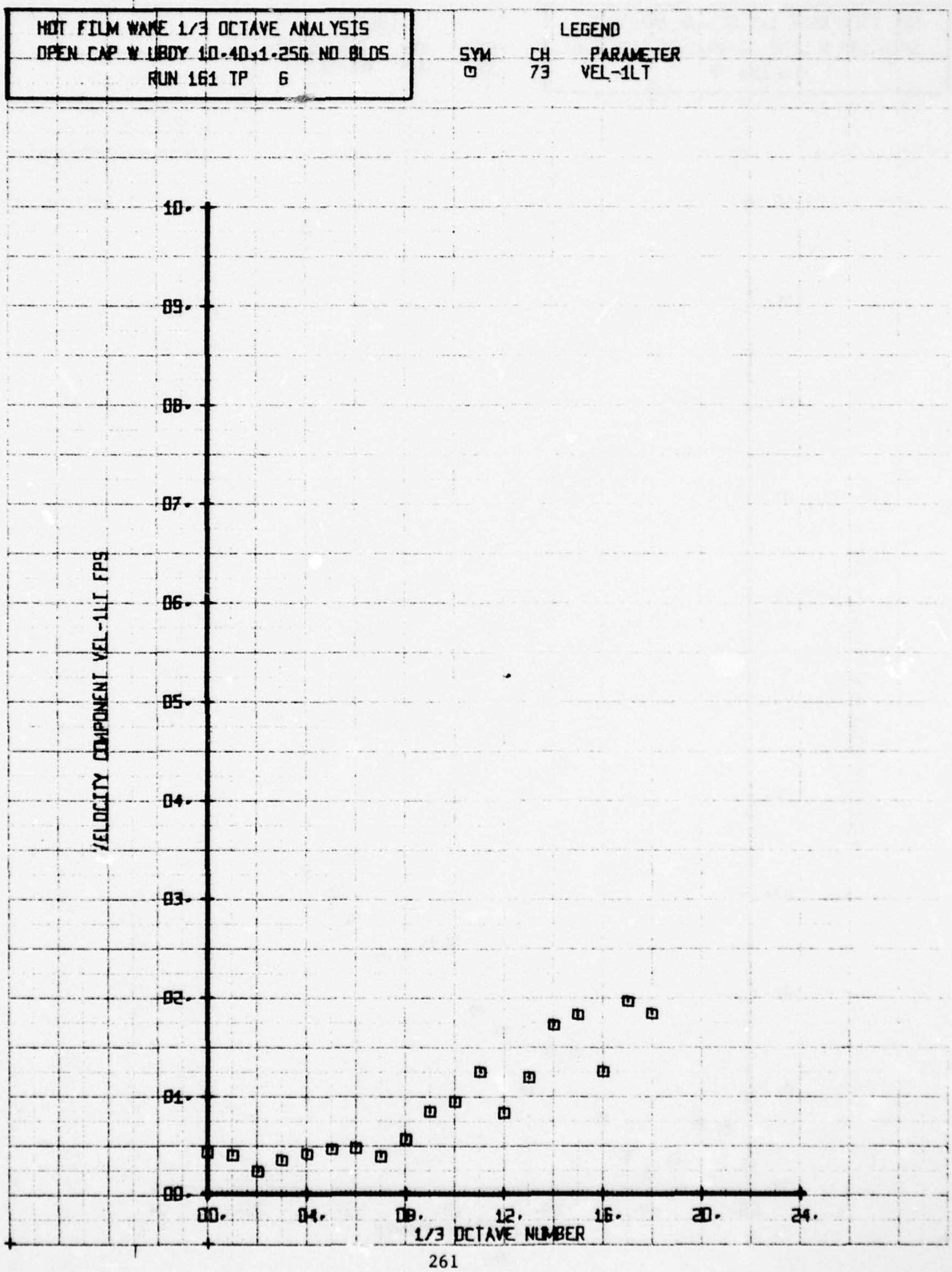

HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBDY 10.40,1.25G NO BLDS
RUN 161 TP 6
LEGEND
SYM CH PARAMETER
73 VEL-1LT
VELOCITY COMPONENT VEL-1LT FPS
1/3 OCTAVE NUMBER
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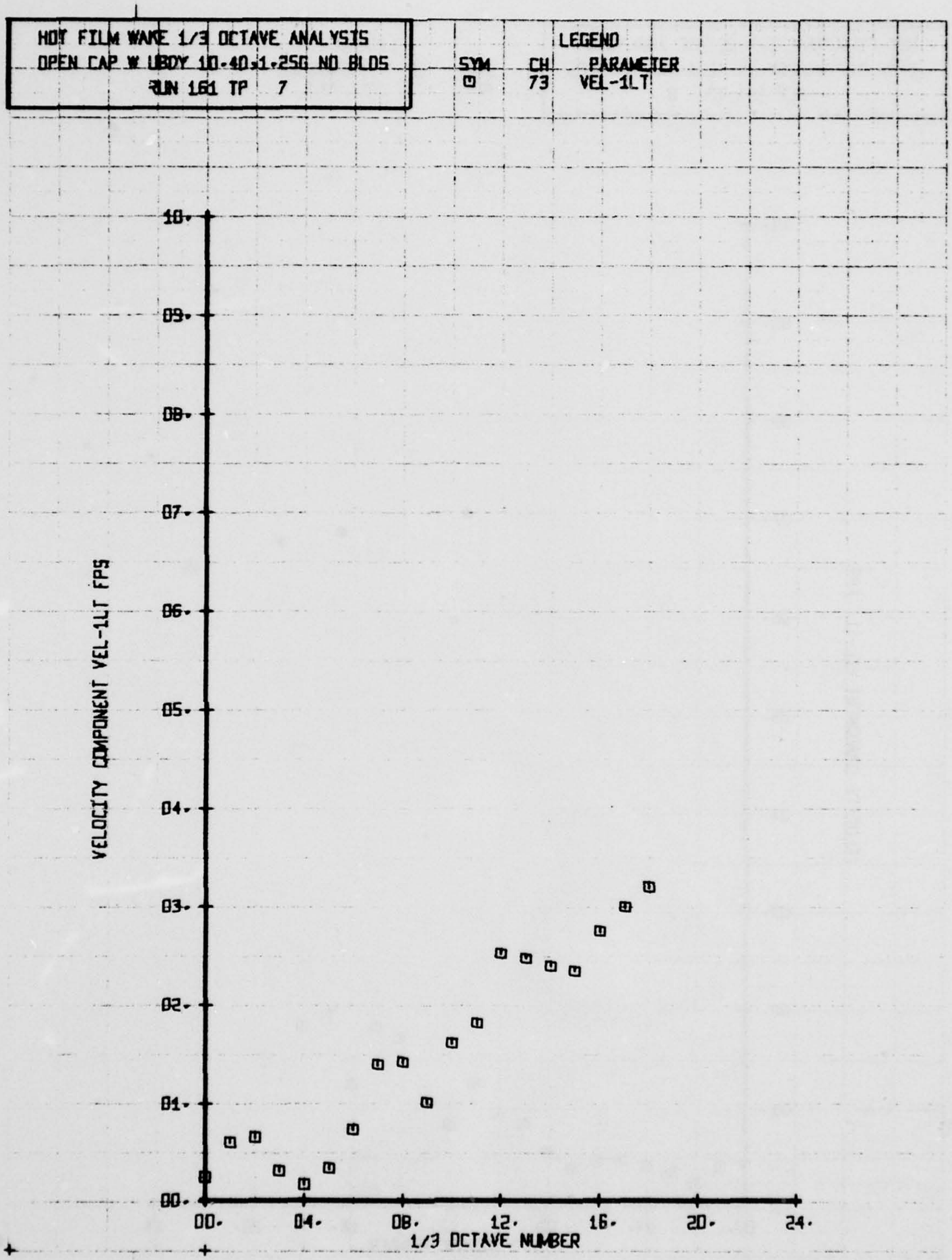
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBDY 10-40-1.25G NO BLDS
RUN 161 TP 7
LEGEND
SYM CH PARAMETER
73 VEL-1LT
VELOCITY COMPONENT VEL-1LT FPS
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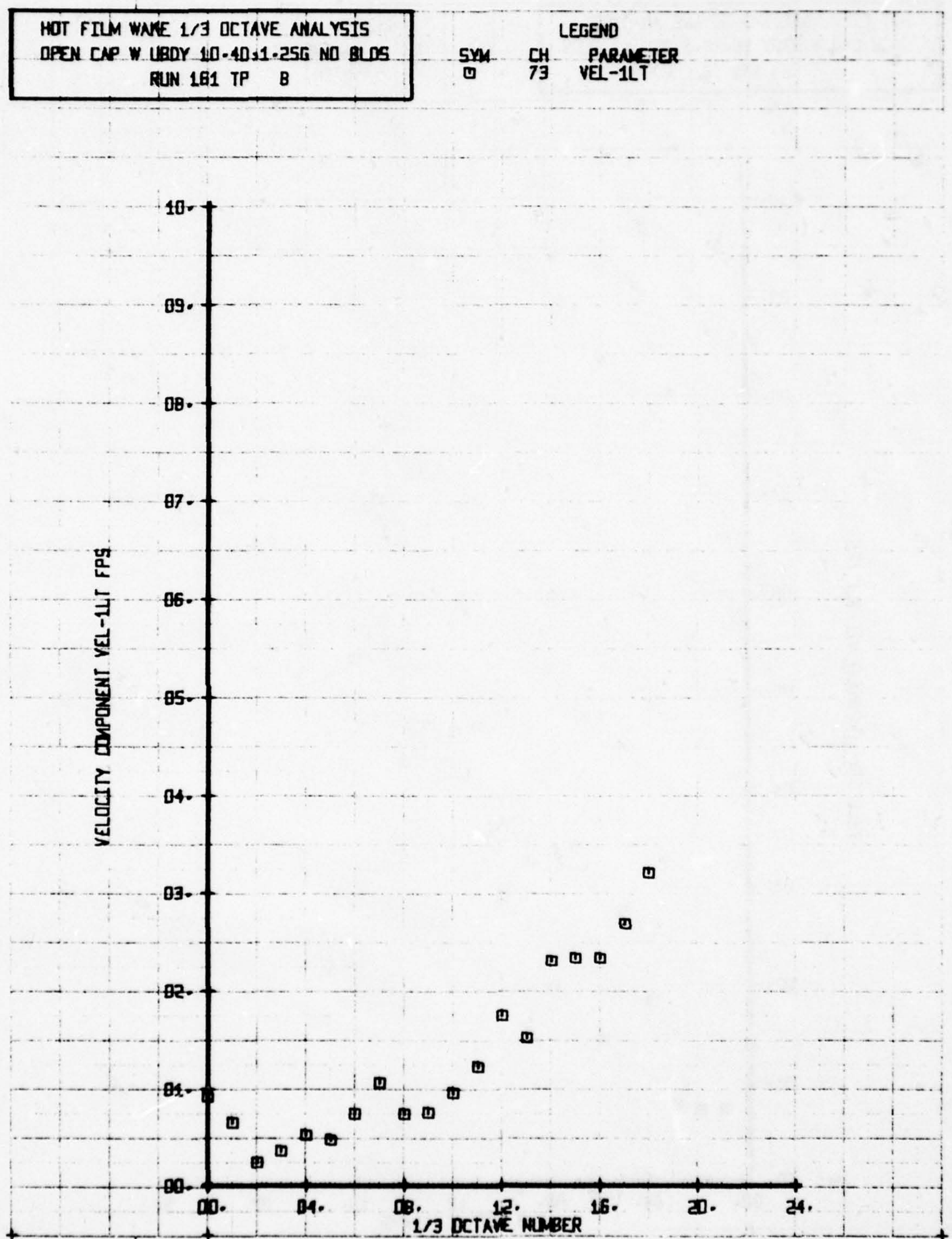
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBDY 10-40:1-25G NO BLDS
RUN 181 TP B
LEGEND
SYM CH PARAMETER
73 VEL-1LT
VELOCITY COMPONENT VEL-1LT FPS
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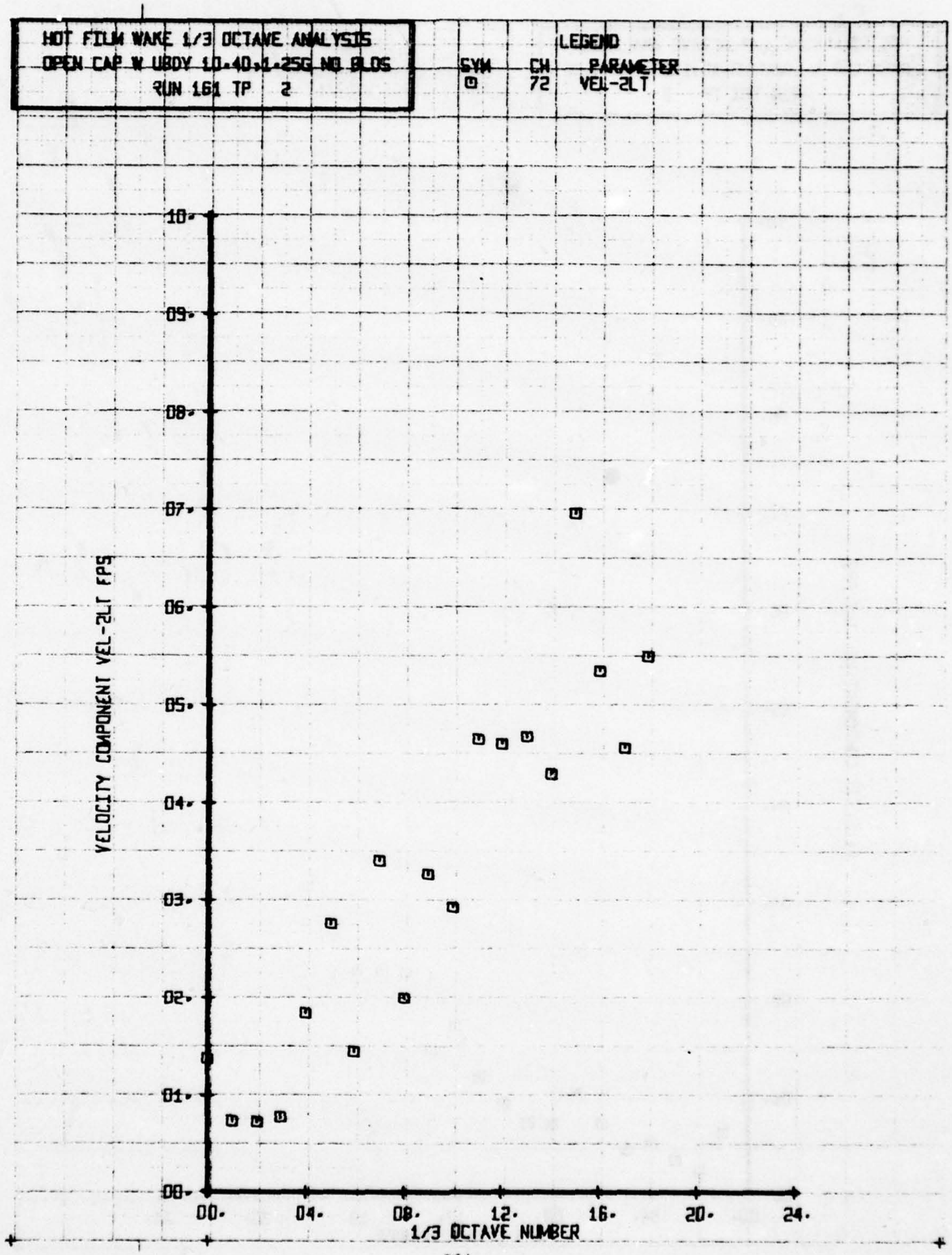
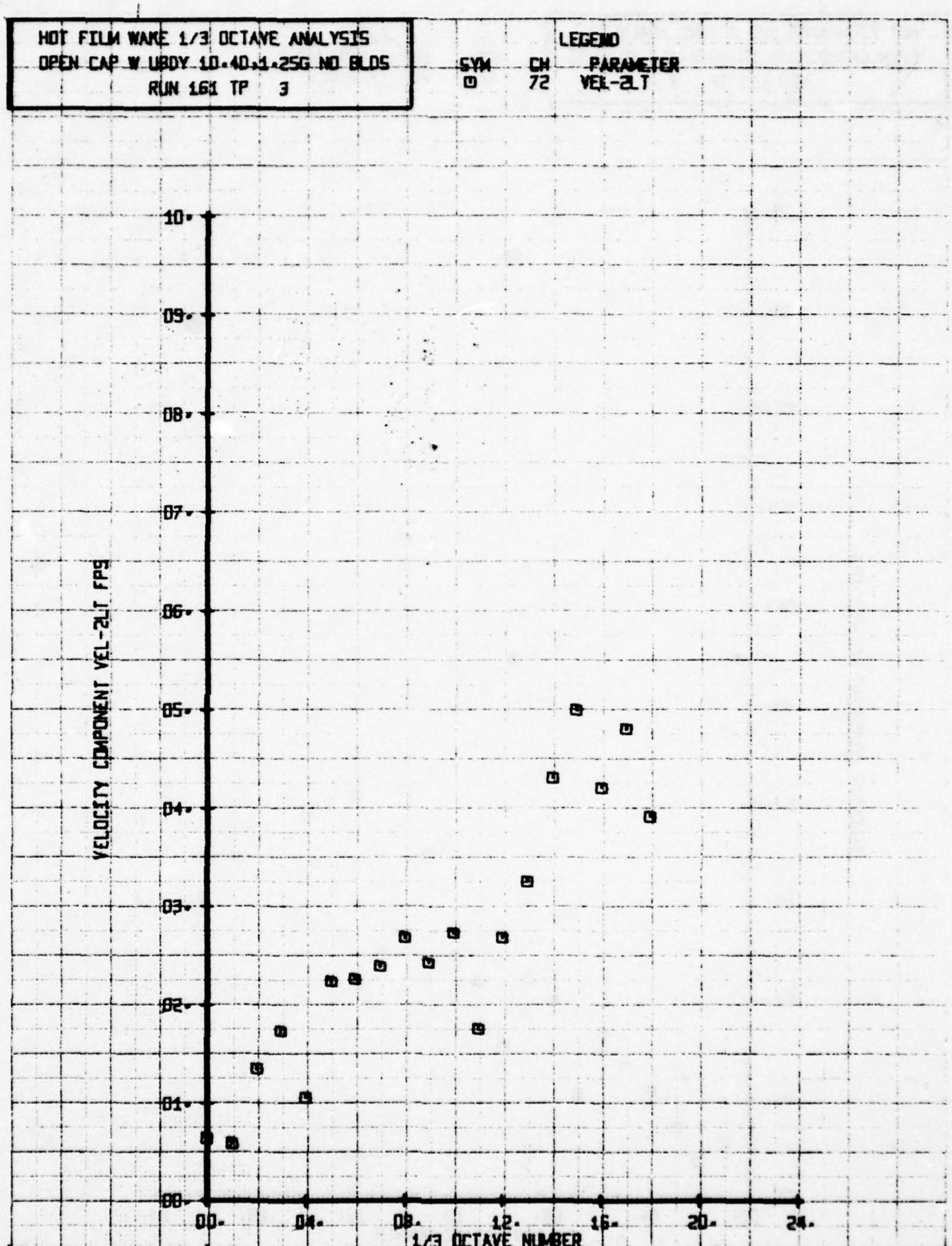
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBDY 10.40,1.25G NO BLDS
RUN 161 TP 2
LEGEND
SYM CH PARAMETER
72 VEL-2LT
VELOCITY COMPONENT VEL-2LT FPS
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBDY 10.40.1.25G NO BLDS
RUN 161 TP 3
LEGEND
SYM CH PARAMETER
72 VEL-2LT
VELOCITY COMPONENT VEL-2LT FPS
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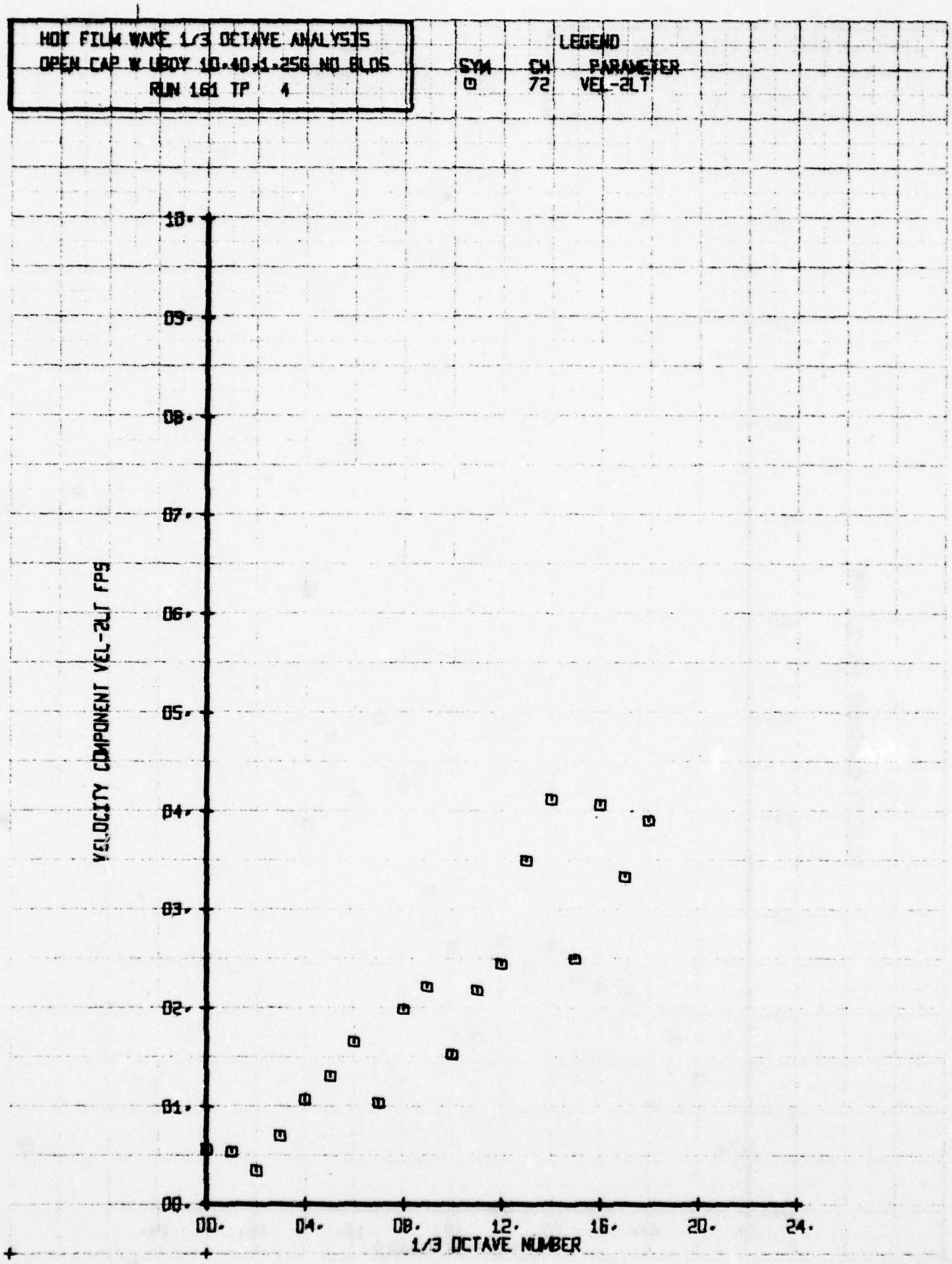
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBOY 10.40,1.25G NO BLDS
RUN 161 TP 4
LEGEND
SYM CH PARAMETER
72 VEL-2LT
VELOCITY COMPONENT VEL-2LT FPS
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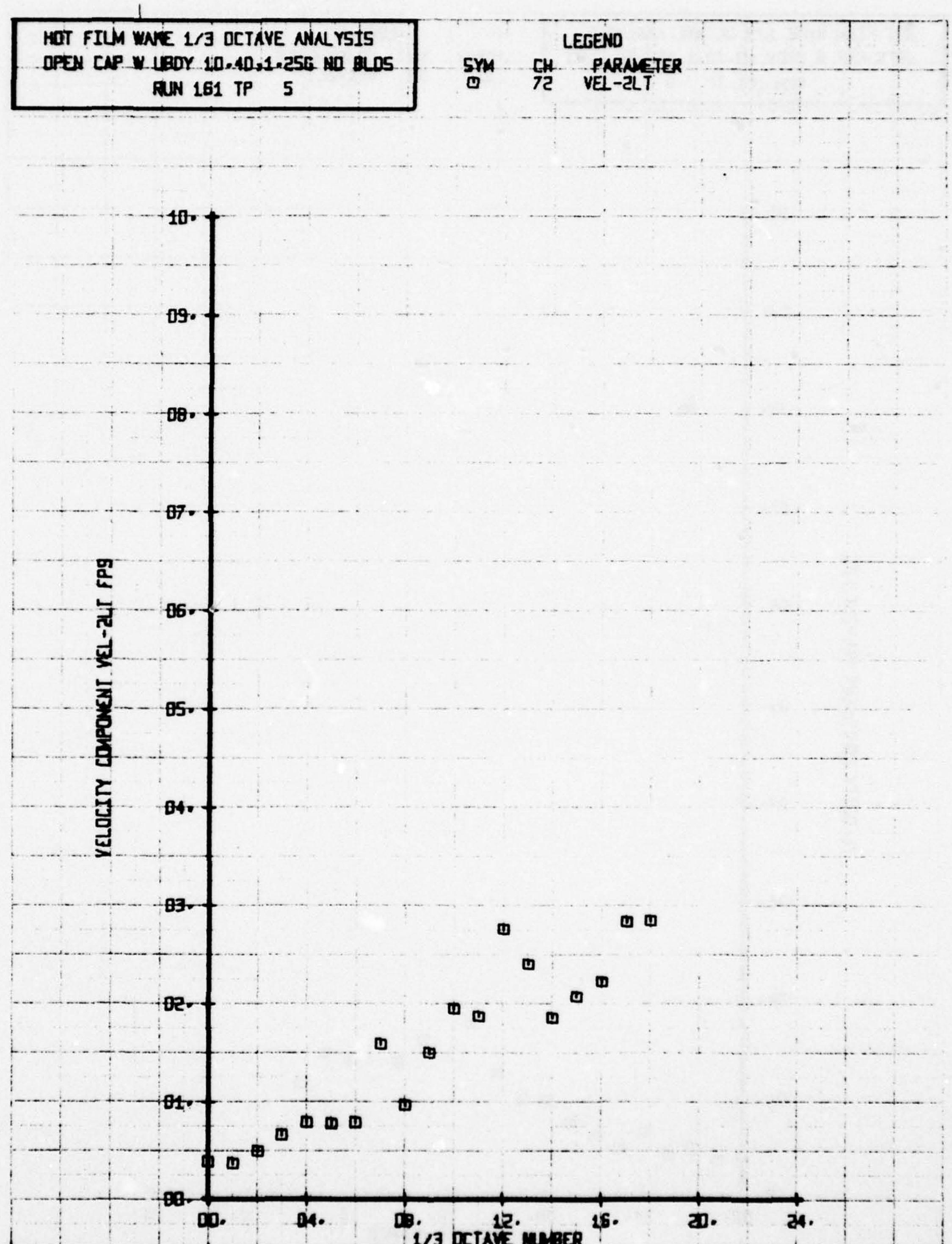
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBDY 10.4D,1.25G NO BLDS
RUN 161 TP 5
LEGEND
SYM CH PARAMETER
72 VEL-2LT
VELOCITY COMPONENT VEL-2LT FPS
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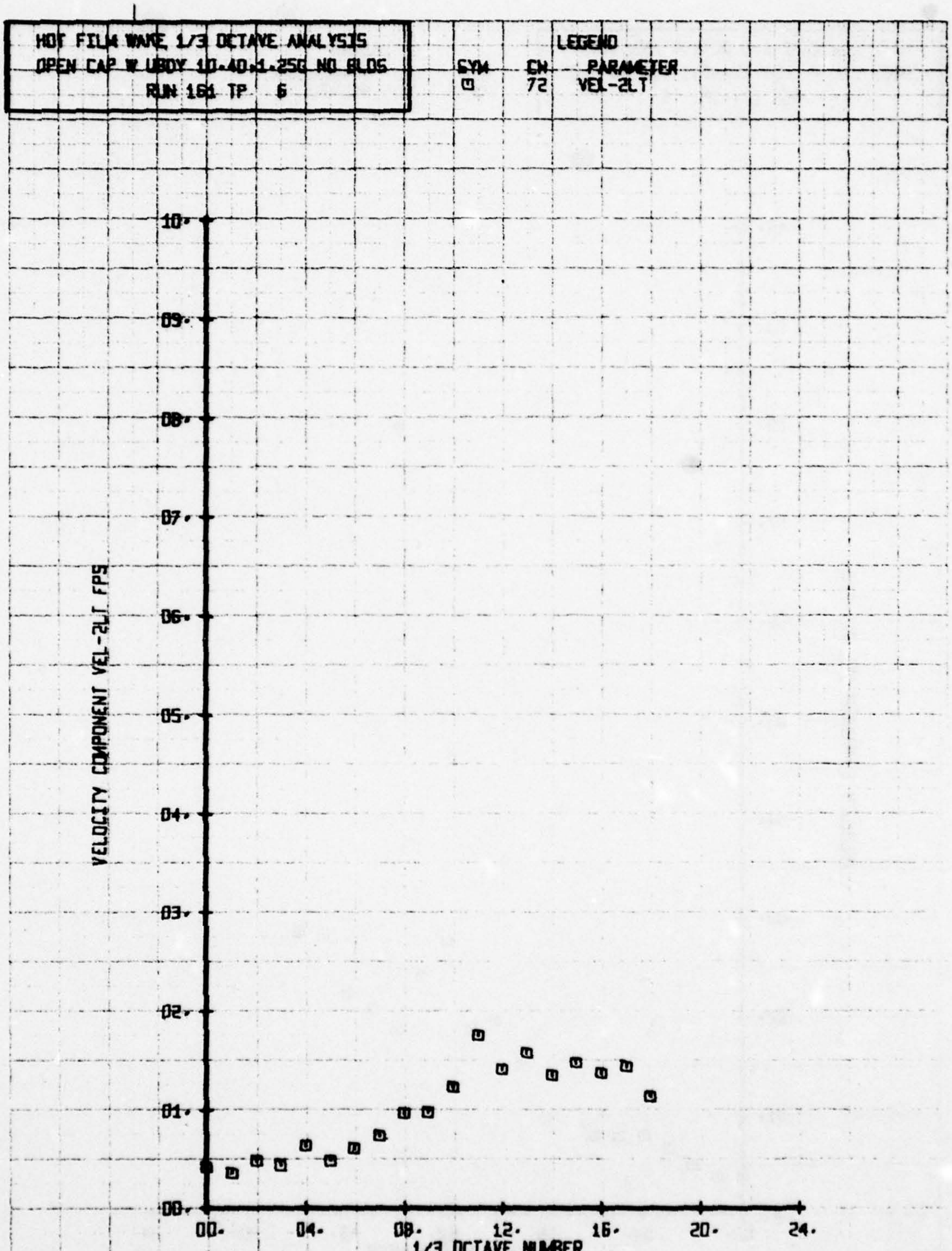
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBDY 10.40.1.25G NO BLDS
RUN 161 TP 6
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SYM CN PARAMETER
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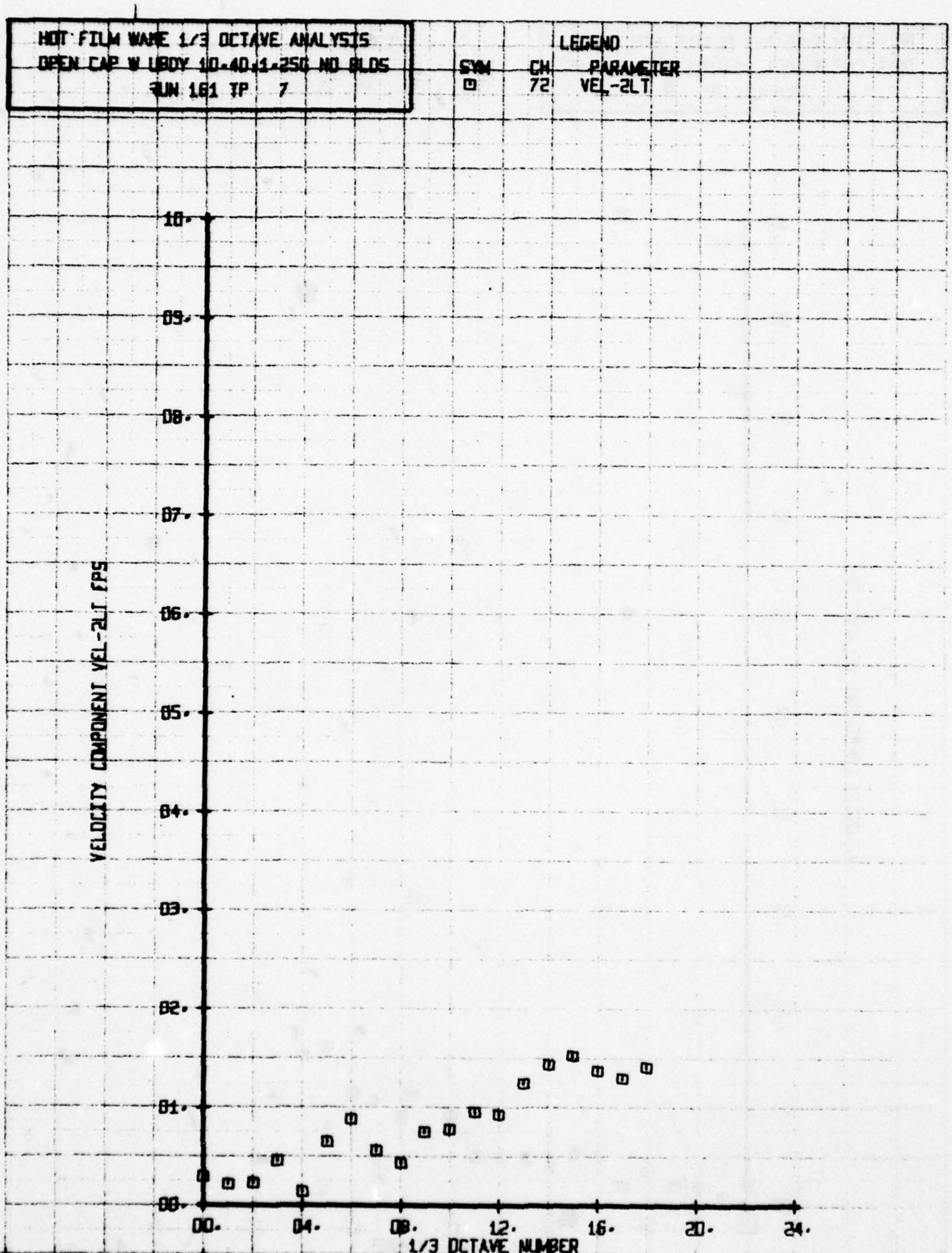
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBOY 10.40.1.25G NO BLDS
RUN 161 TP 7
LEGEND
SYM CH PARAMETER
72 VEL-2LT
VELOCITY COMPONENT VEL-2LT FPS
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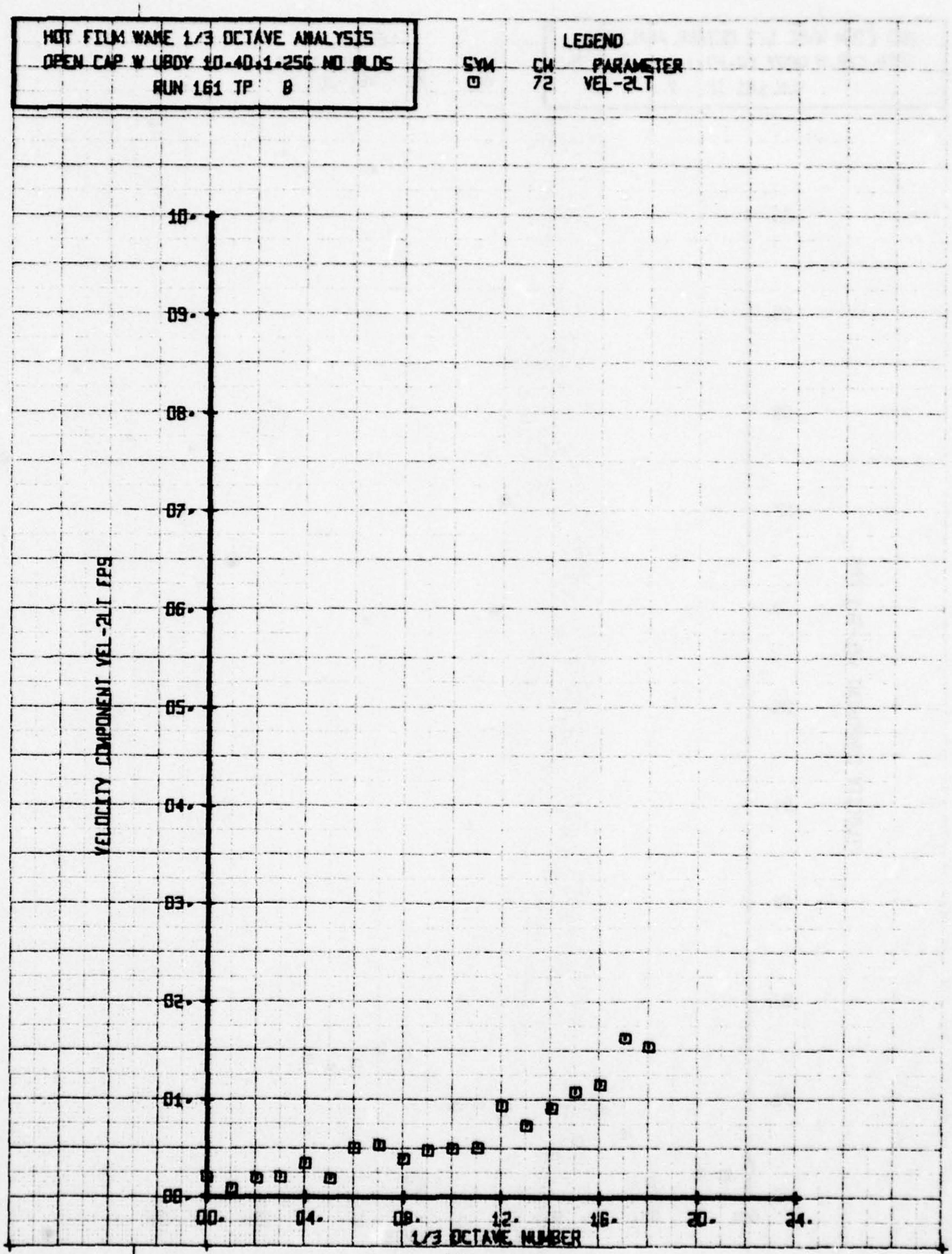
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RUN 161 TP 8
LEGEND
SYM CH PARAMETER
72 VEL-2LT
VELOCITY COMPONENT VEL-2LT FPS
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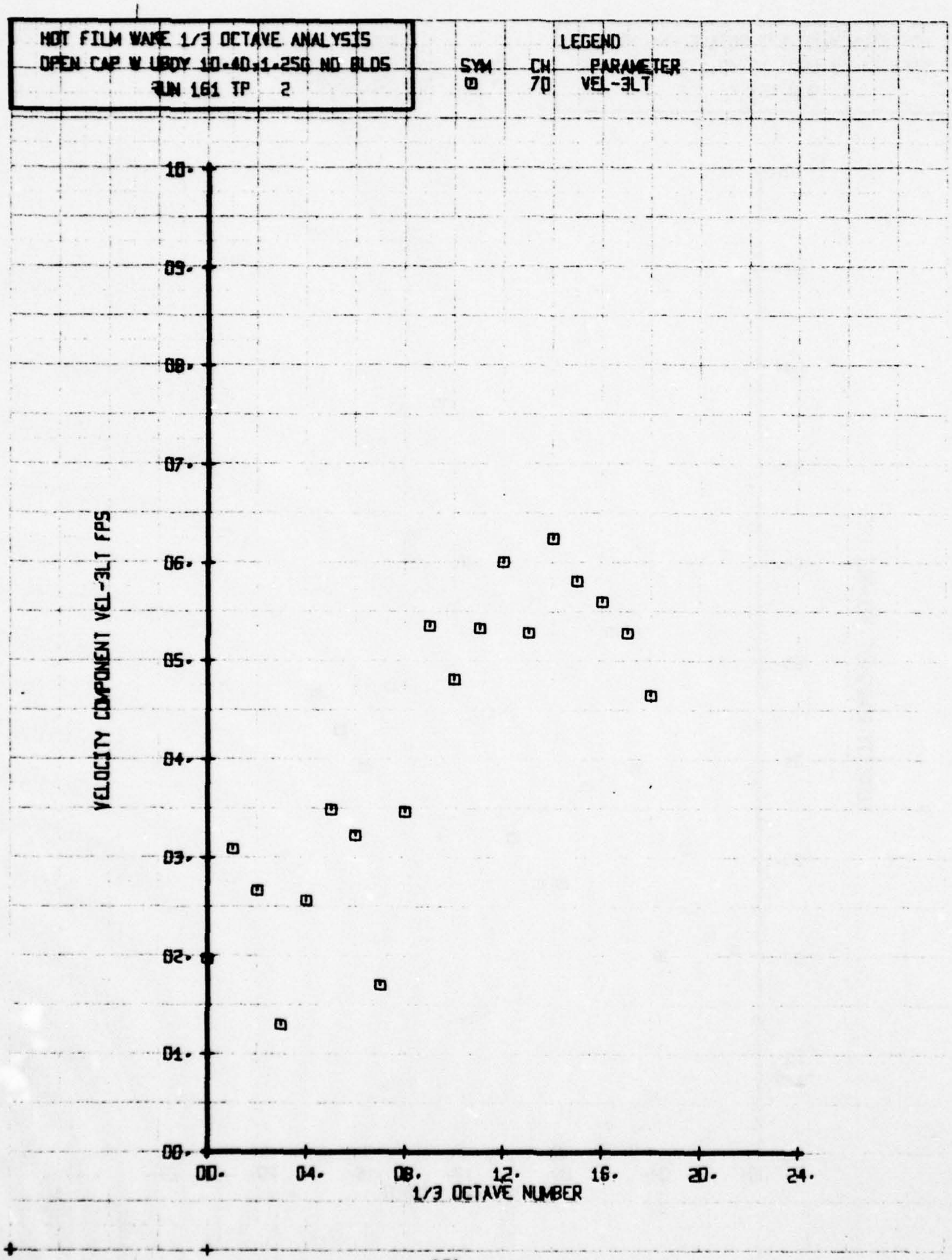
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBOY 10.40.1.25G NO BLDS
RUN 161 TP 2
LEGEND
SYM CH PARAMETER
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VELOCITY COMPONENT VEL-3LT FPS
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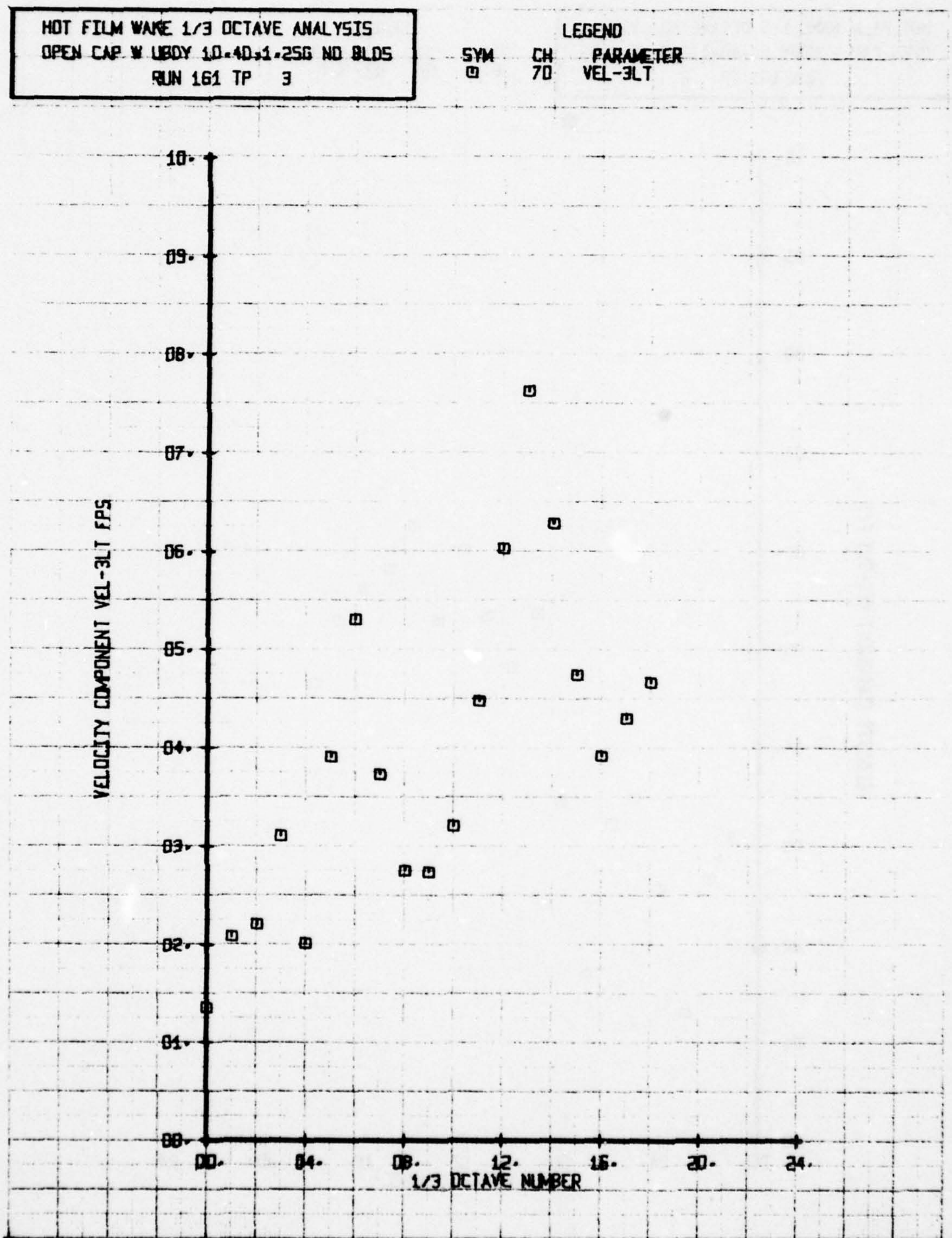
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBDY 10.4D,1.25G NO BLDS
RUN 161 TP 3
LEGEND
SYM CH PARAMETER
70 VEL-3LT
VELOCITY COMPONENT VEL-3LT FPS
1/3 OCTAVE NUMBER
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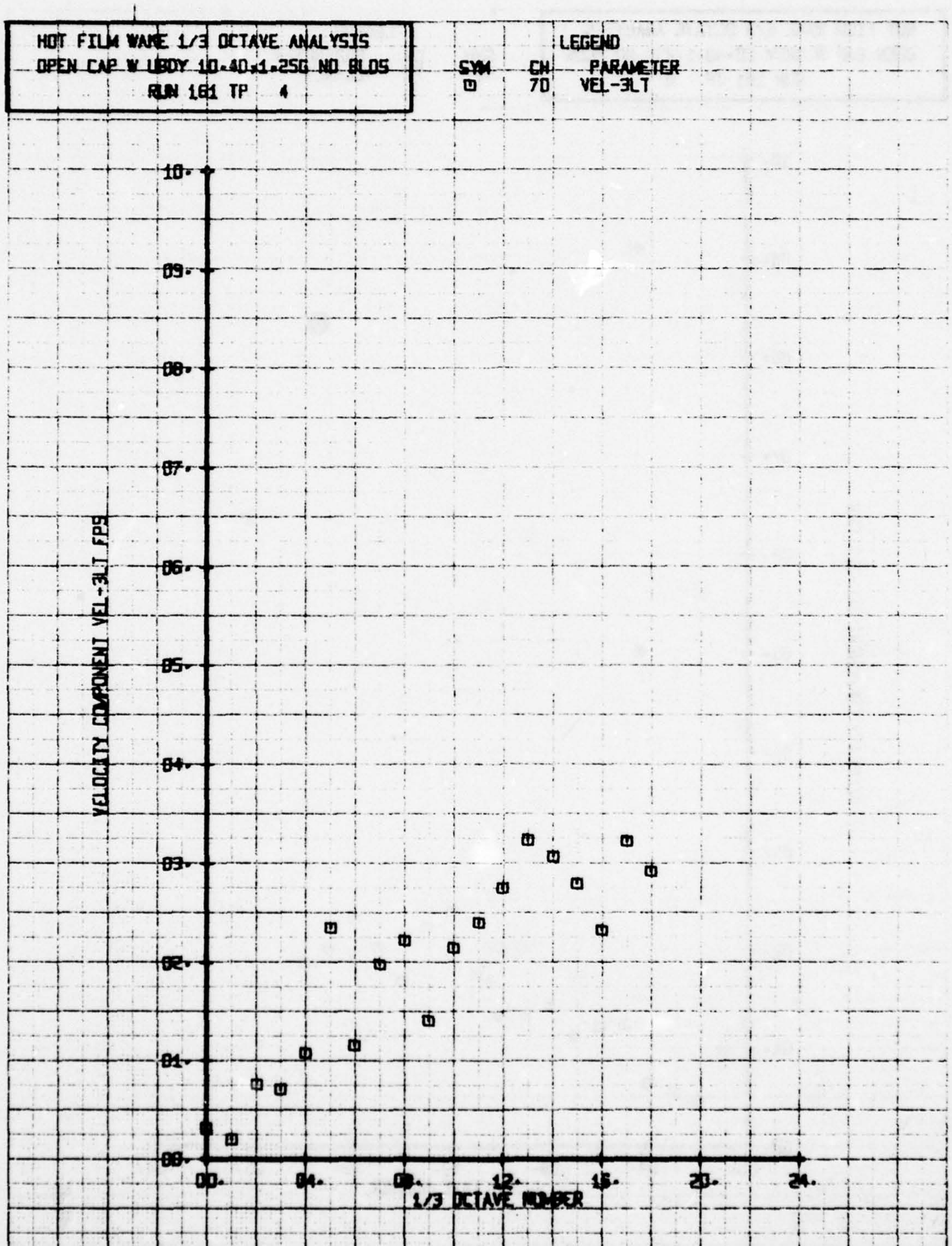
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBDY 10.40x1.25G NO BLDS
RUN 161 TP 4
LEGEND
SYM CH PARAMETER
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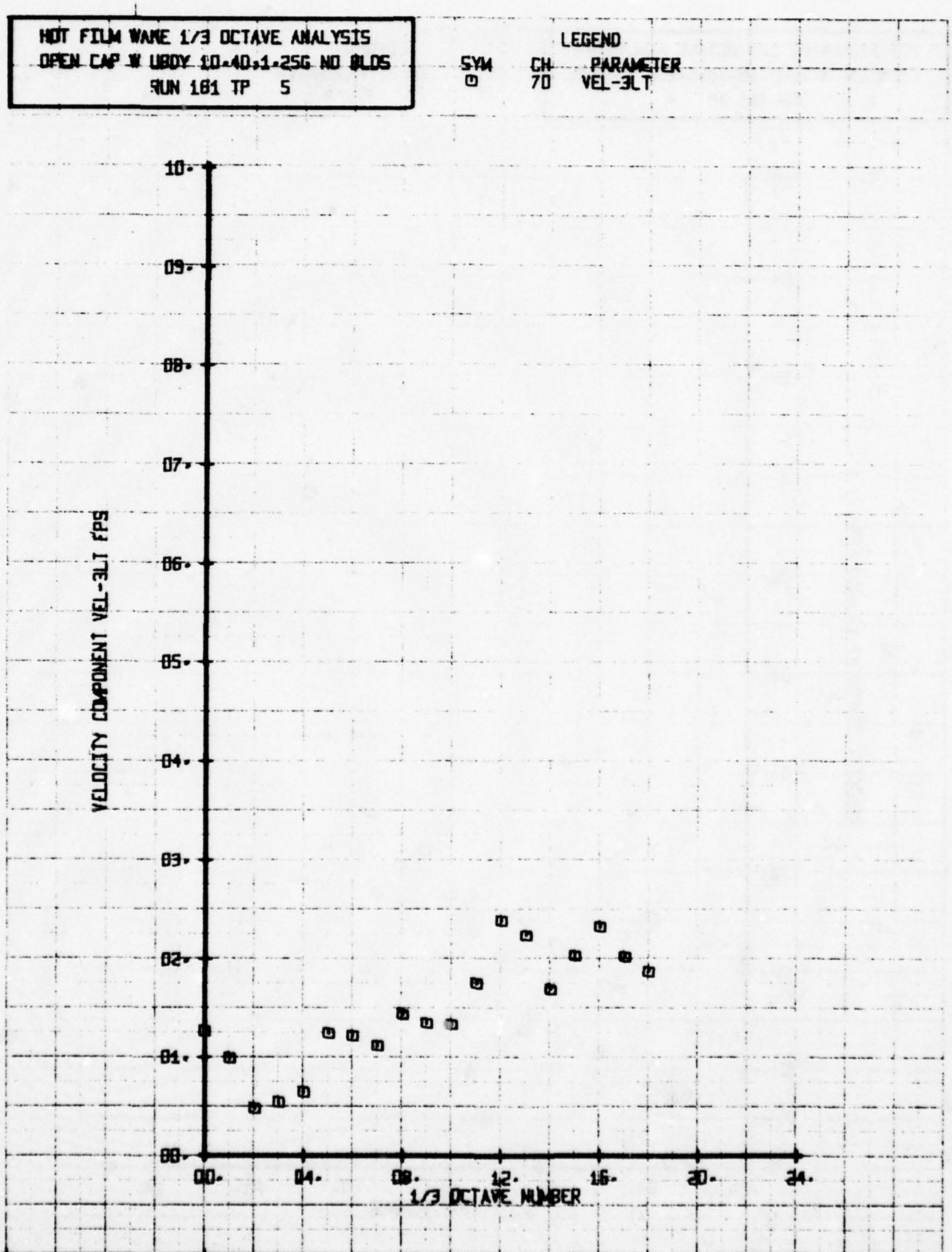
VELOCITY COMPONENT VEL-3LT FPS
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBDY 10.40,1.25G NO BLDS
RUN 181 TP 5
LEGEND
SYM CH PARAMETER
70 VEL-3LT
VELOCITY COMPONENT VEL-3LT FPS
1/3 OCTAVE NUMBER
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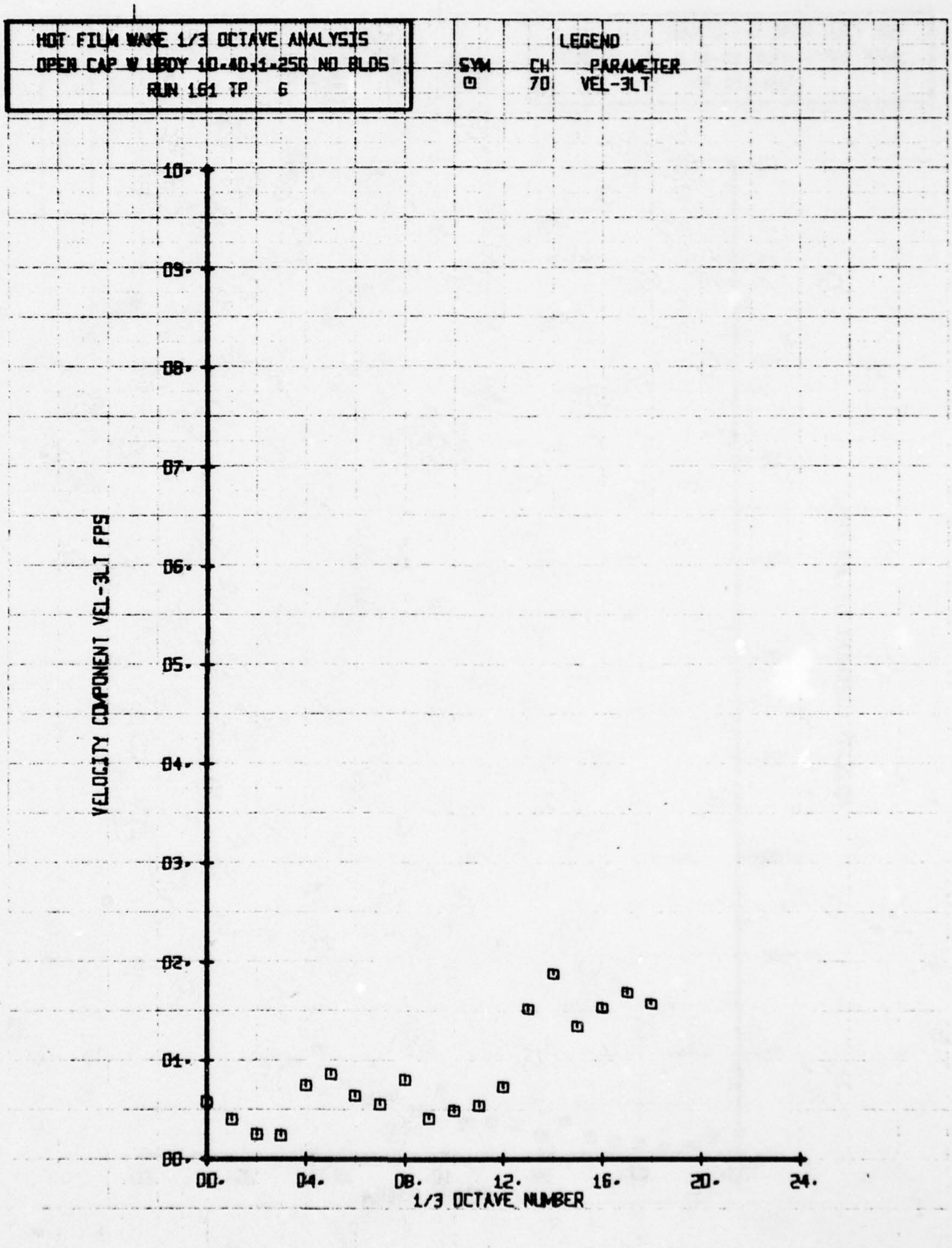
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBOY 10.40,1.25G NO BLDS
RUN 161 TP 6
LEGEND
SYM CH PARAMETER
70 VEL-3LT
VELOCITY COMPONENT VEL-3LT FPS
1/3 OCTAVE NUMBER
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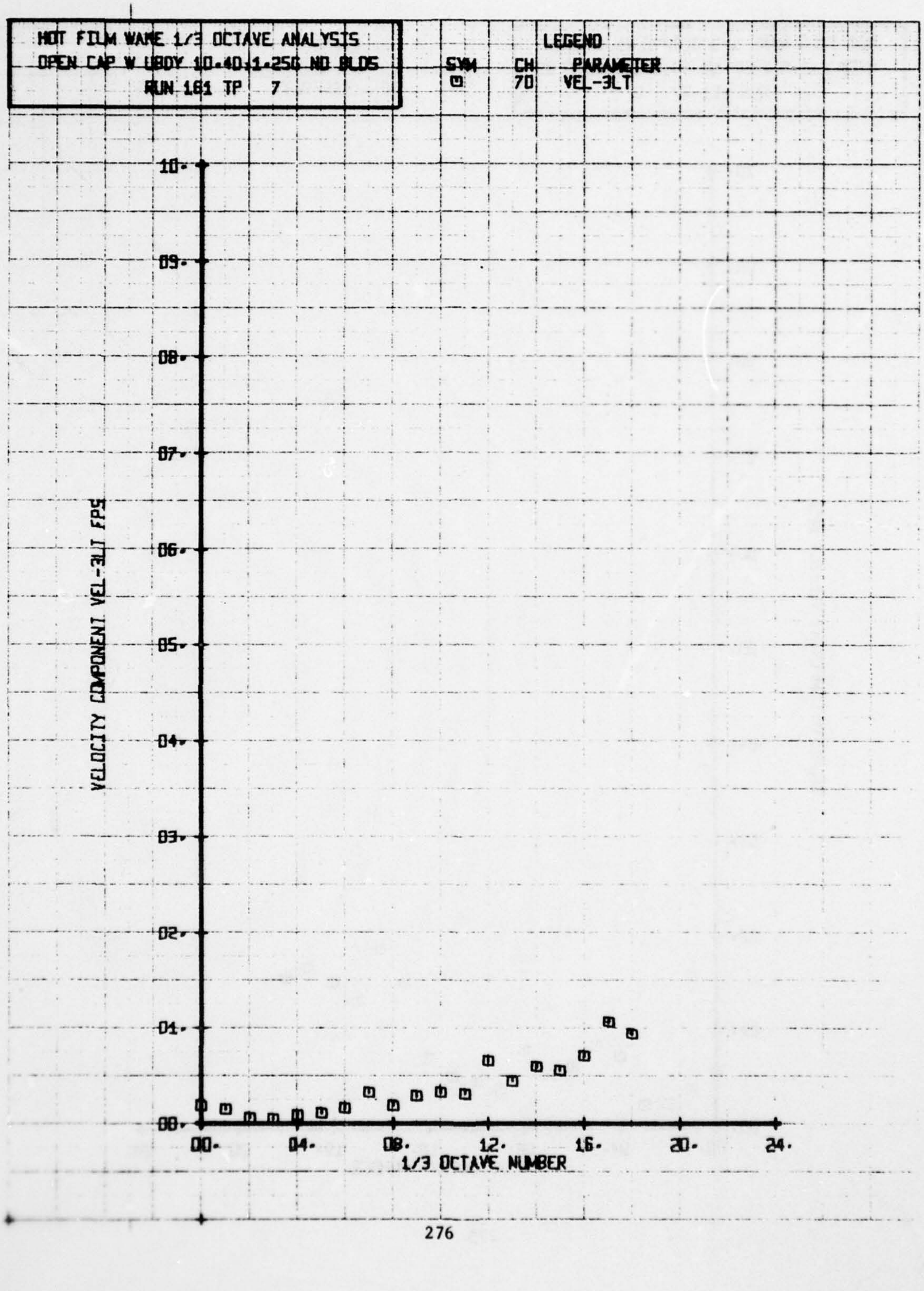
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBDY 10.40.1.25G NO BLDS
RUN 161 TP 7
LEGEND
SYM CH PARAMETER
70 VEL-3LT
VELOCITY COMPONENT VEL-3LT FPS
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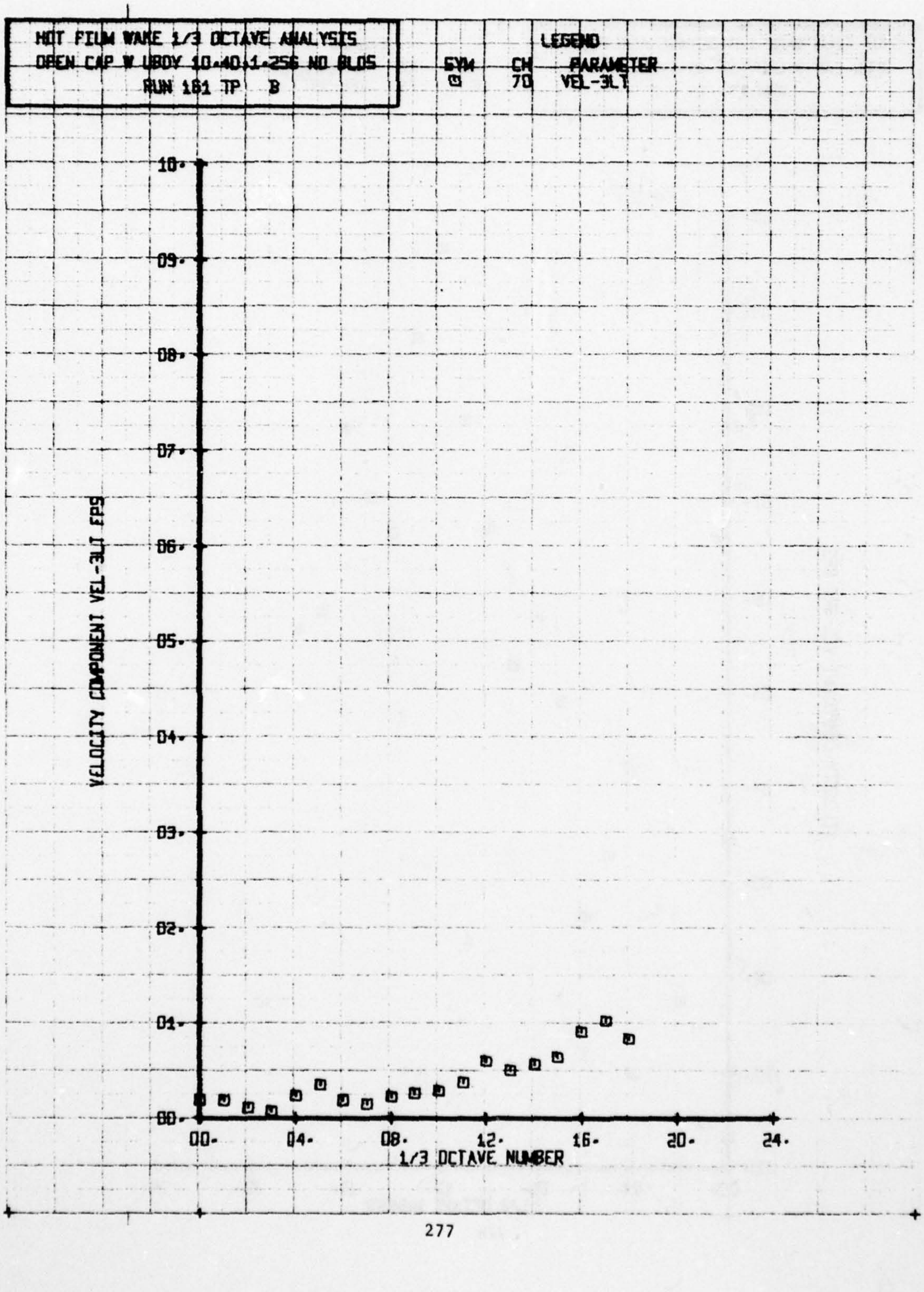
24.
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBDY 10.40.1.256 NO BLDS
RUN 161 TP B
LEGEND
SYM CH PARAMETER
70 VEL-3LT
VELOCITY COMPONENT VEL-3LT FPS
10.
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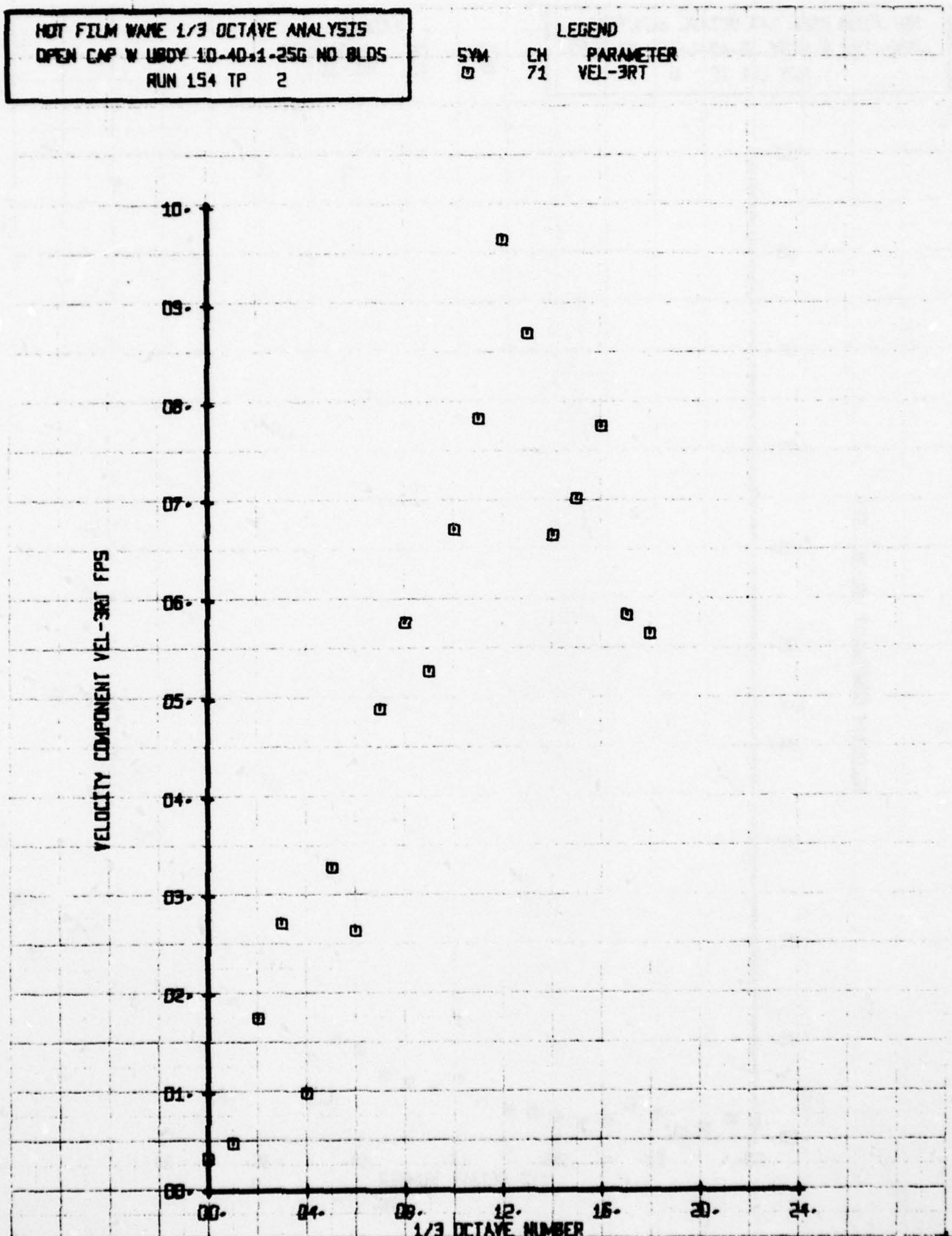
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBDY 10-40,1-25G NO BLDS
RUN 154 TP 2
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
1/3 OCTAVE NUMBER
10.
09.
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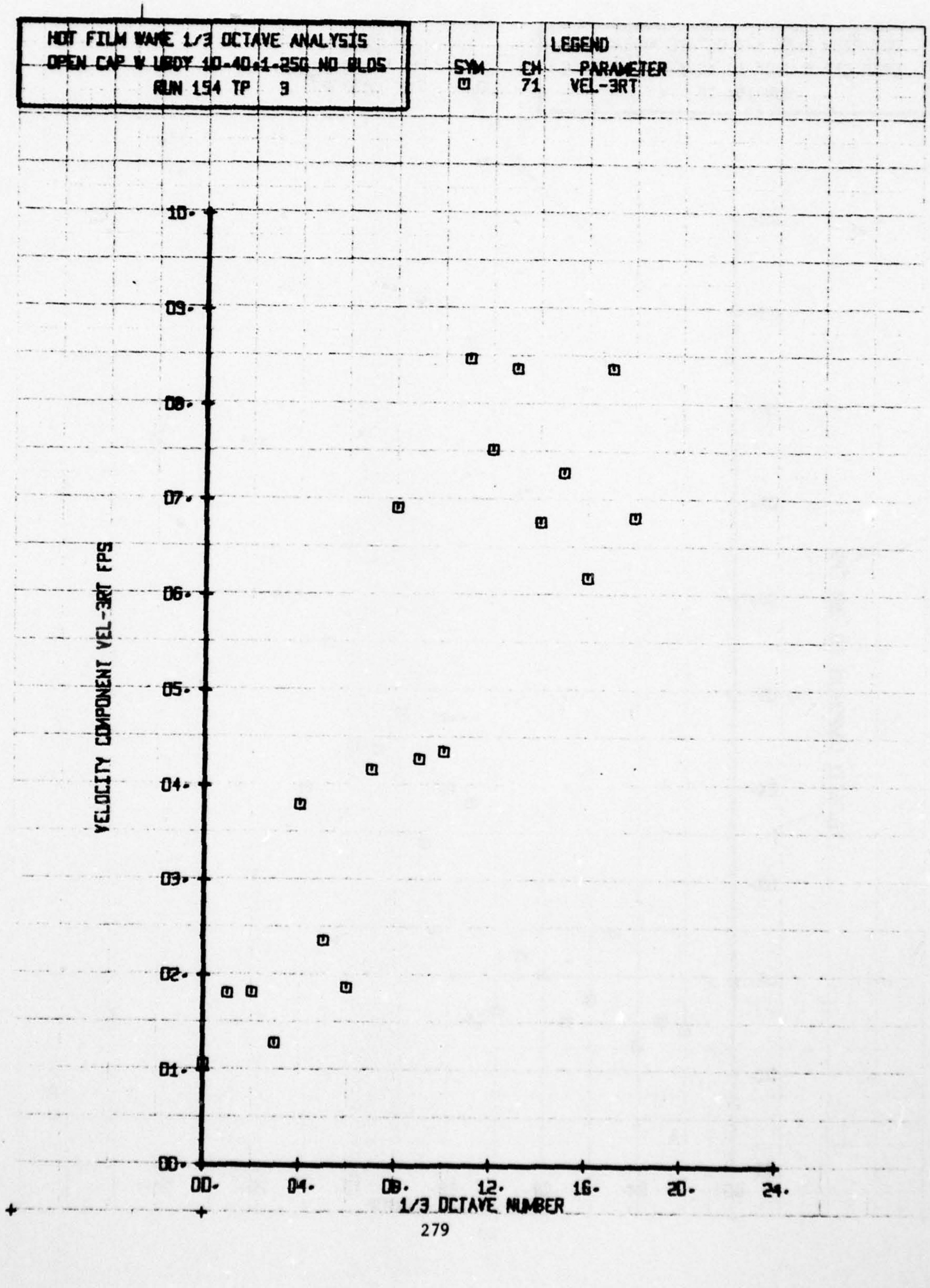
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBDY 10-40.1-25G NO BLDS
RUN 154 TP 3
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
10.
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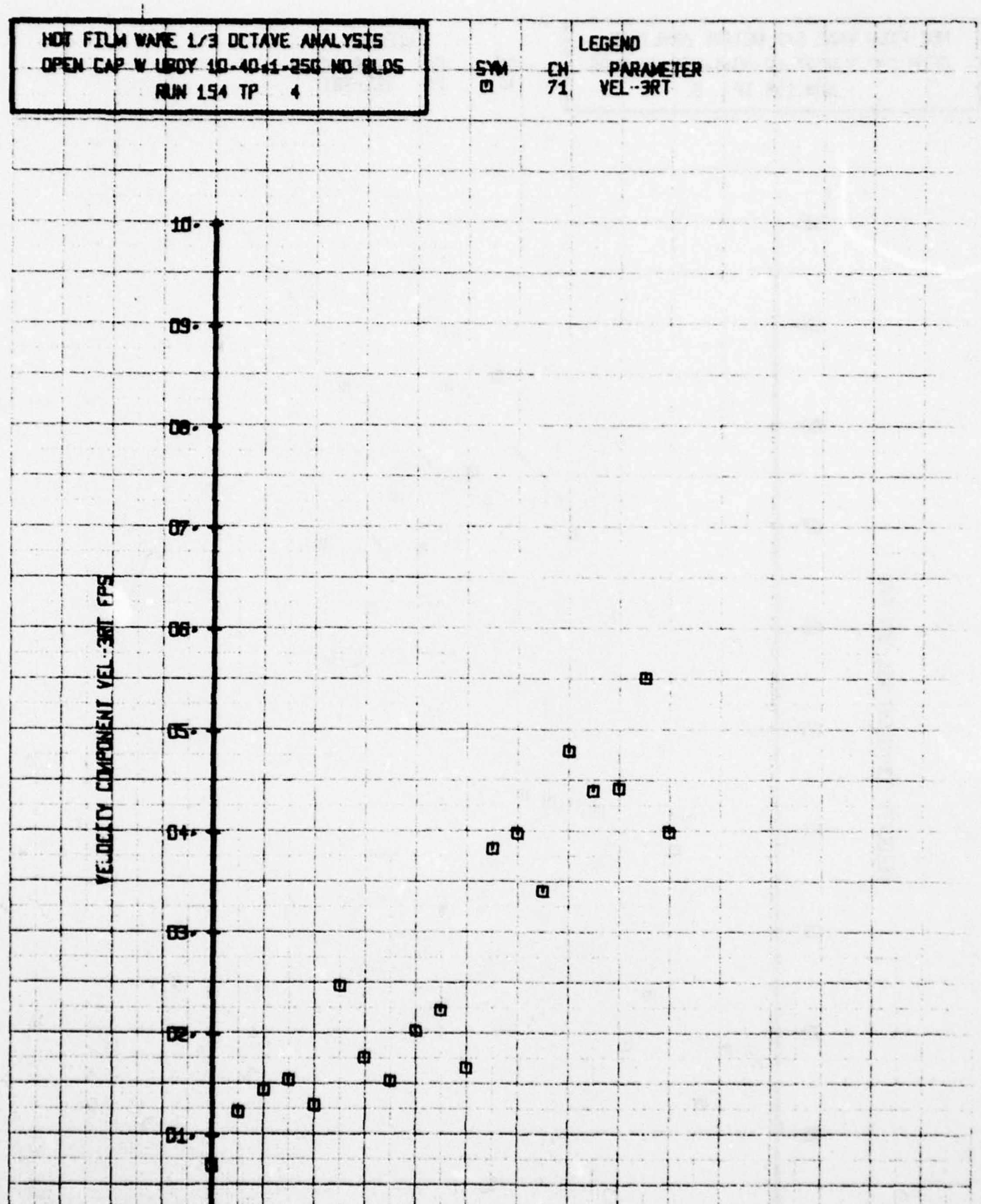
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBOY 10-40-1-250 NO BLDS
RUN 154 TP 4
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
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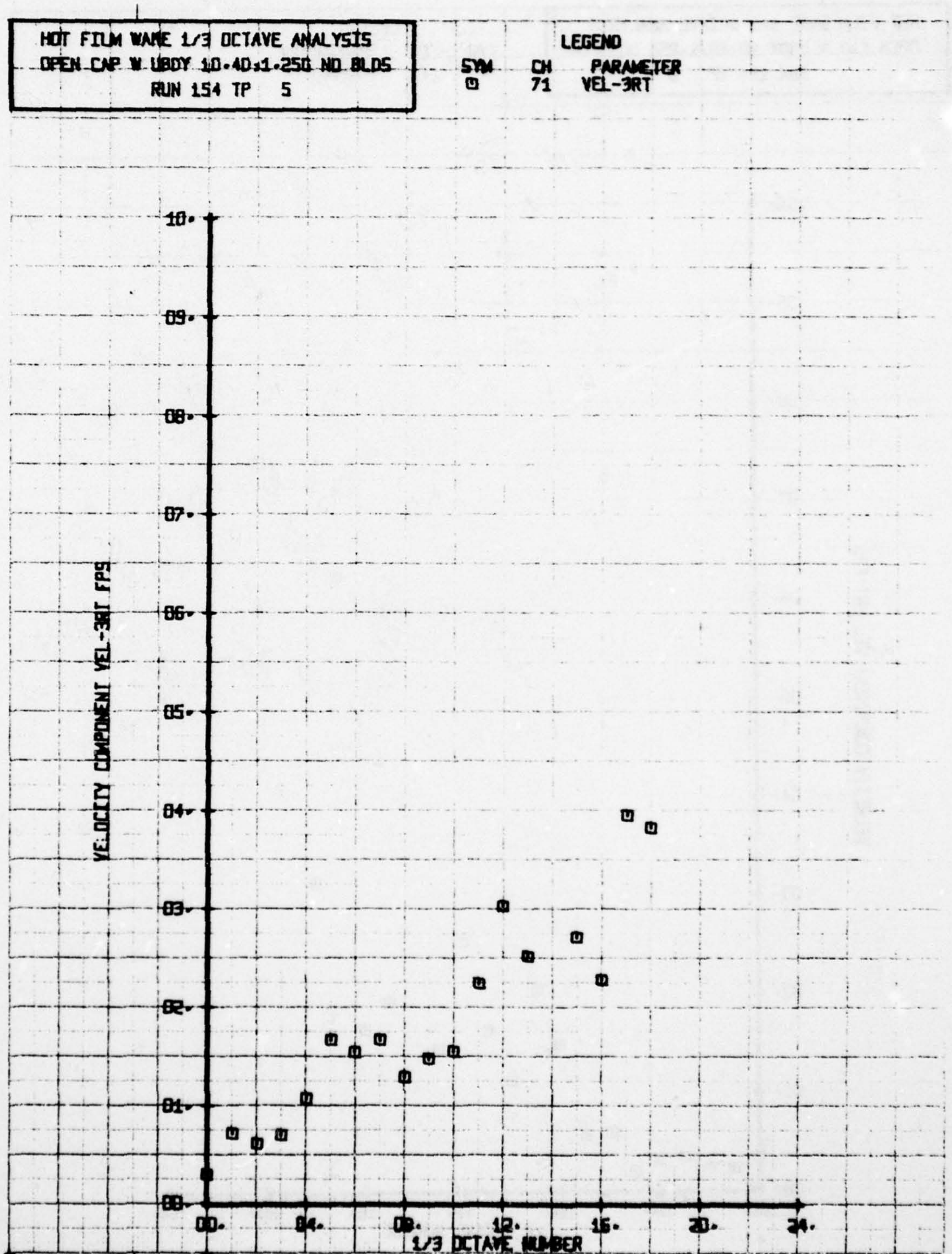
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBDY 10.4D:1.250 NO BLDS
RUN 154 TP 5
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
1/3 OCTAVE NUMBER
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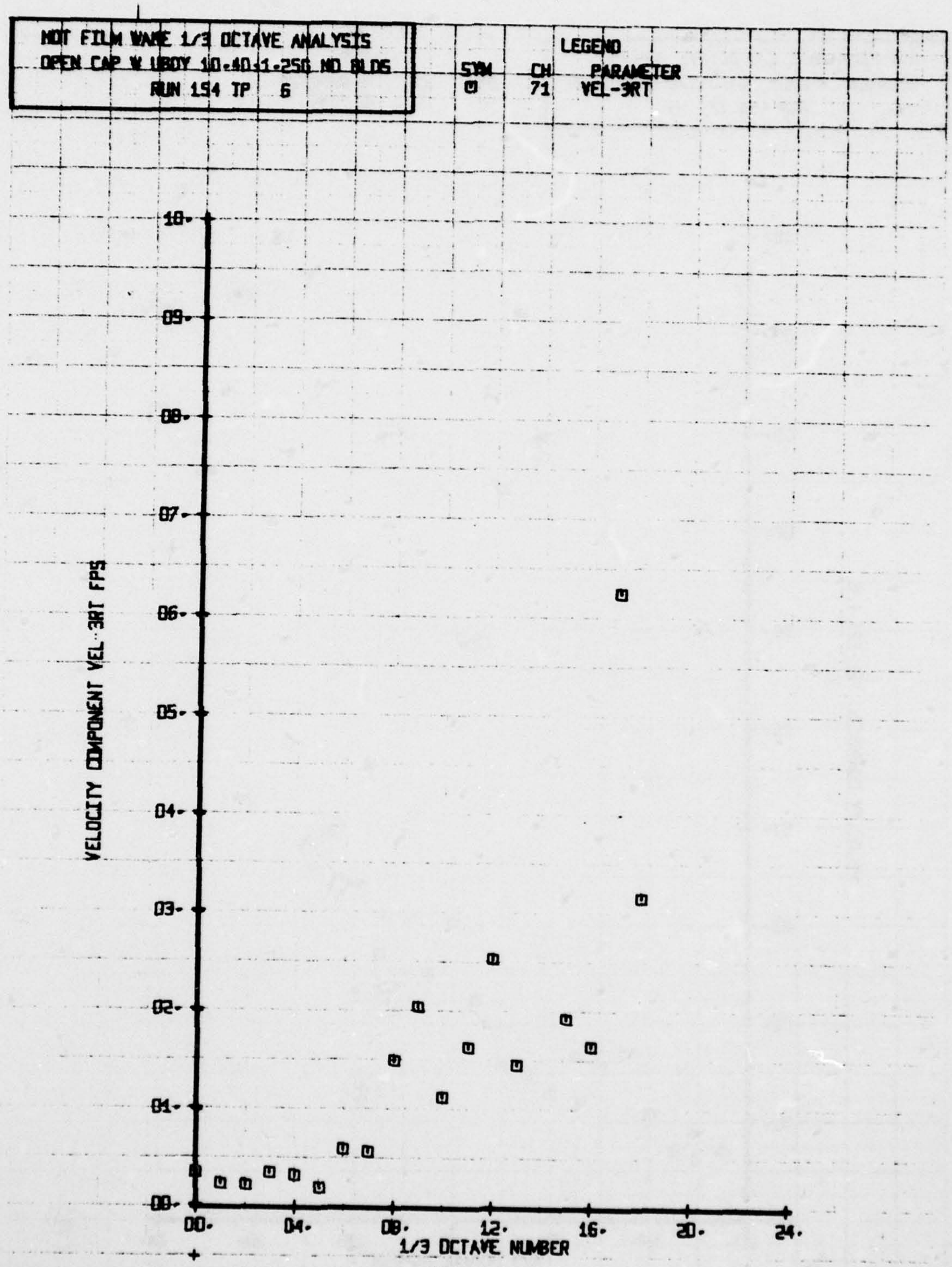
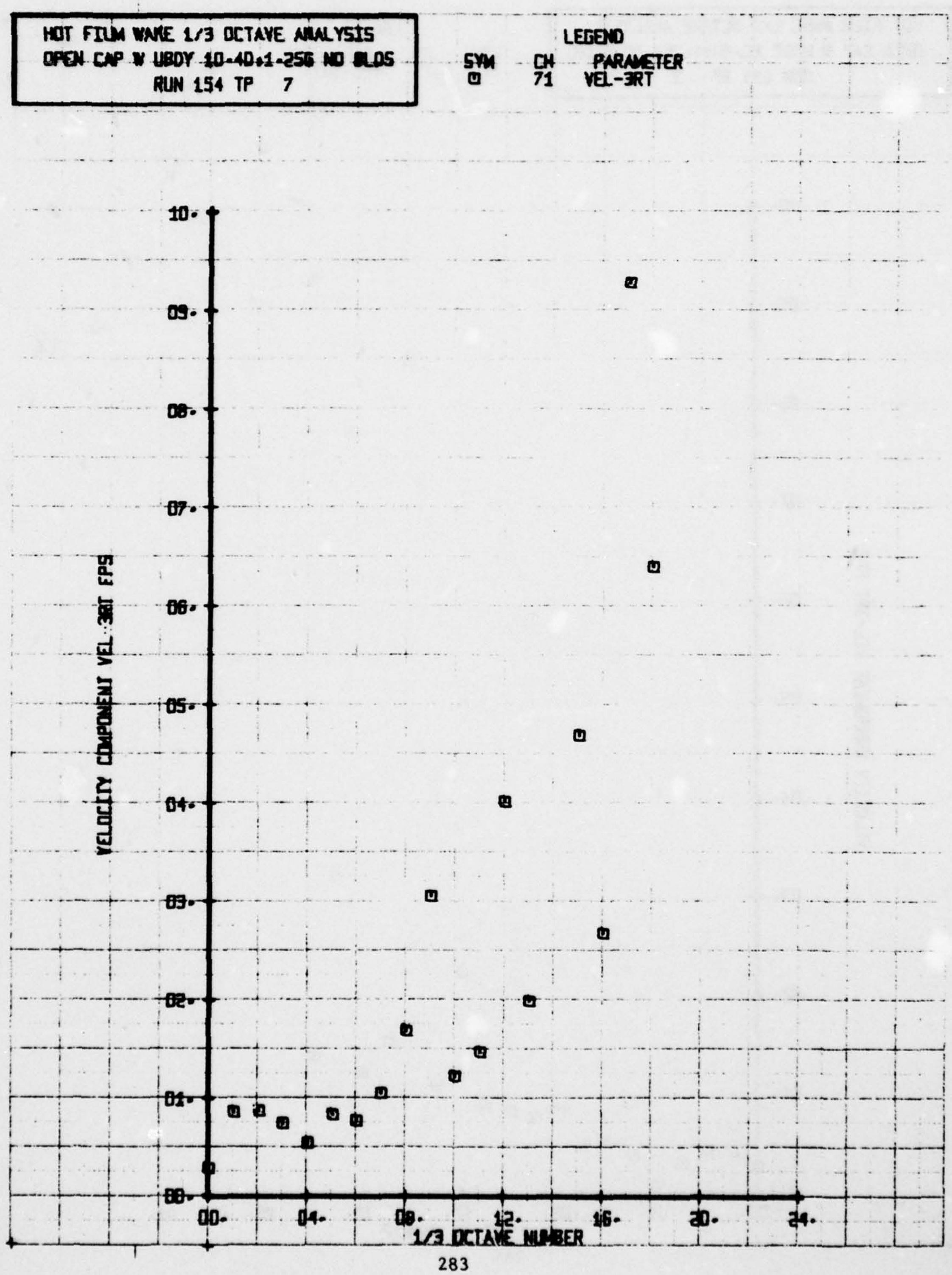


NOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBOY 10.40.1.25G NO BLDG
RUN 154 TP 6
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBDY 10-40+1-256 NO BLDS
RUN 154 TP 7
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
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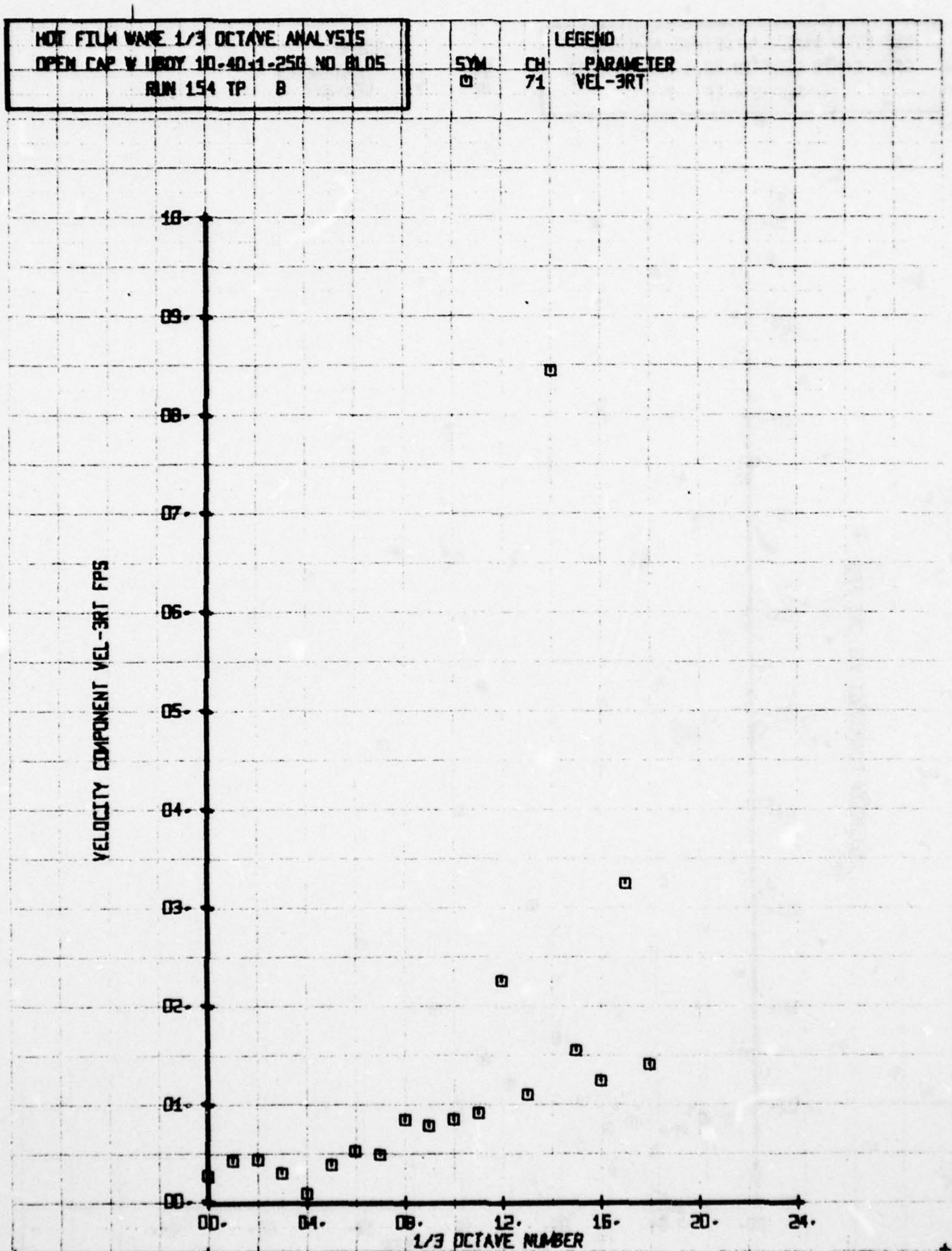
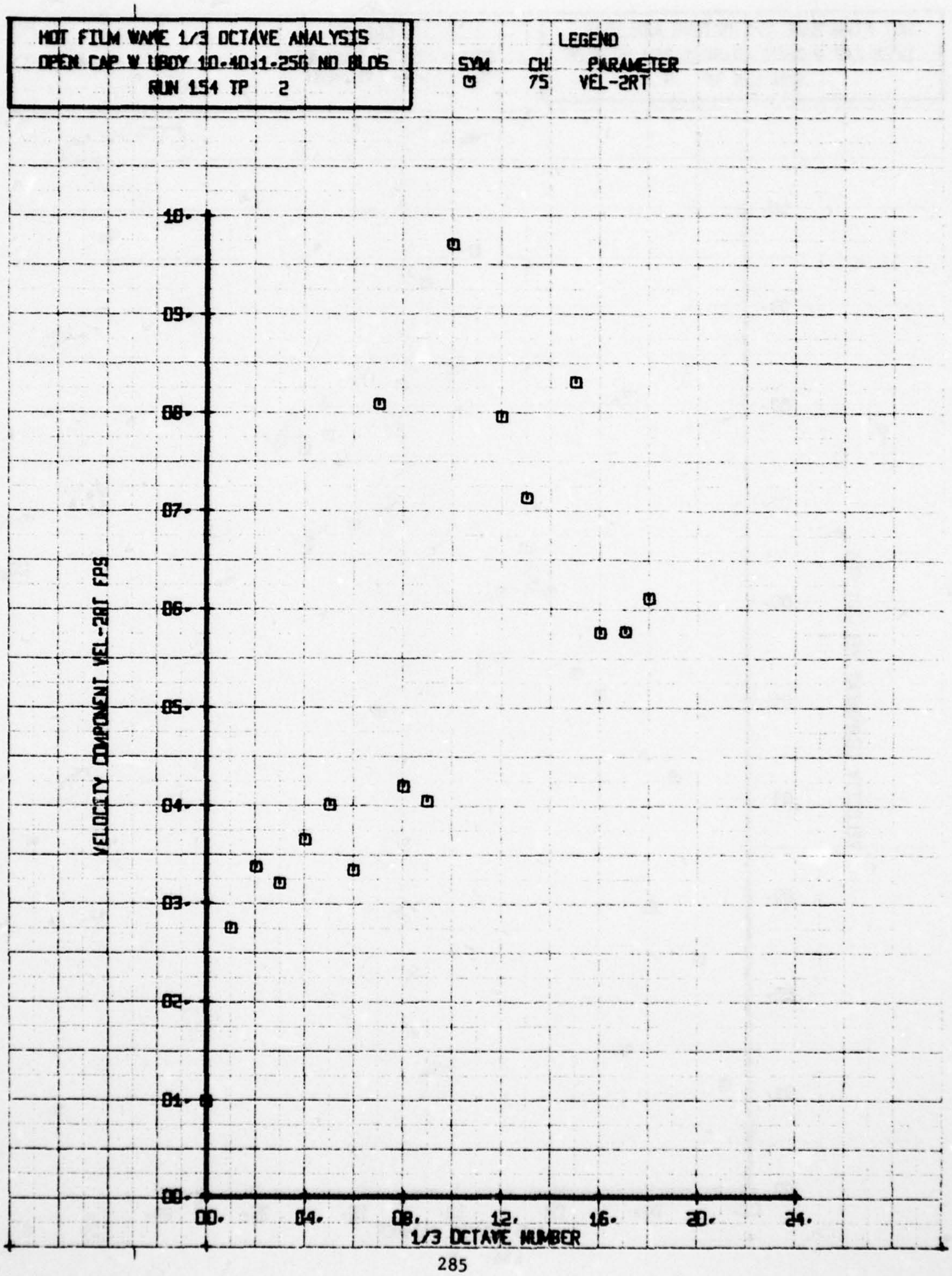
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBOY 10-40-1-25G NO BLDS
RUN 154 TP B
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
1/3 OCTAVE NUMBER



HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBOY 10.40:1-25G NO BLDS
RUN 154 TP 2
LEGEND
SYM CH PARAMETER
75 VEL-2RT
VELOCITY COMPONENT VEL-2RT FPS
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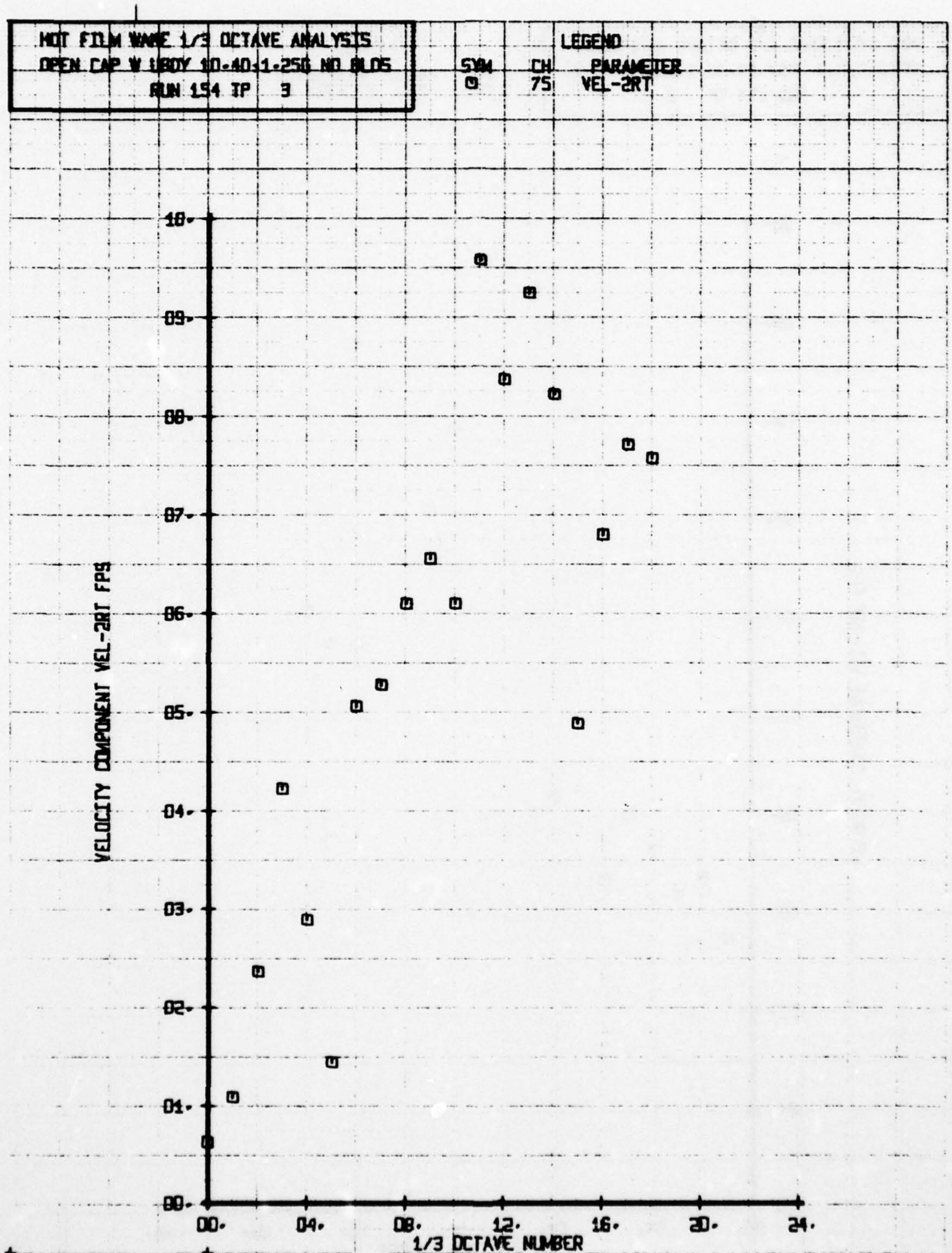
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBOY 10.40.1.25G NO BLDS
RUN 154 TP 3
LEGEND
SYM CH PARAMETER
75 VEL-2RT
VELOCITY COMPONENT VEL-2RT FPS
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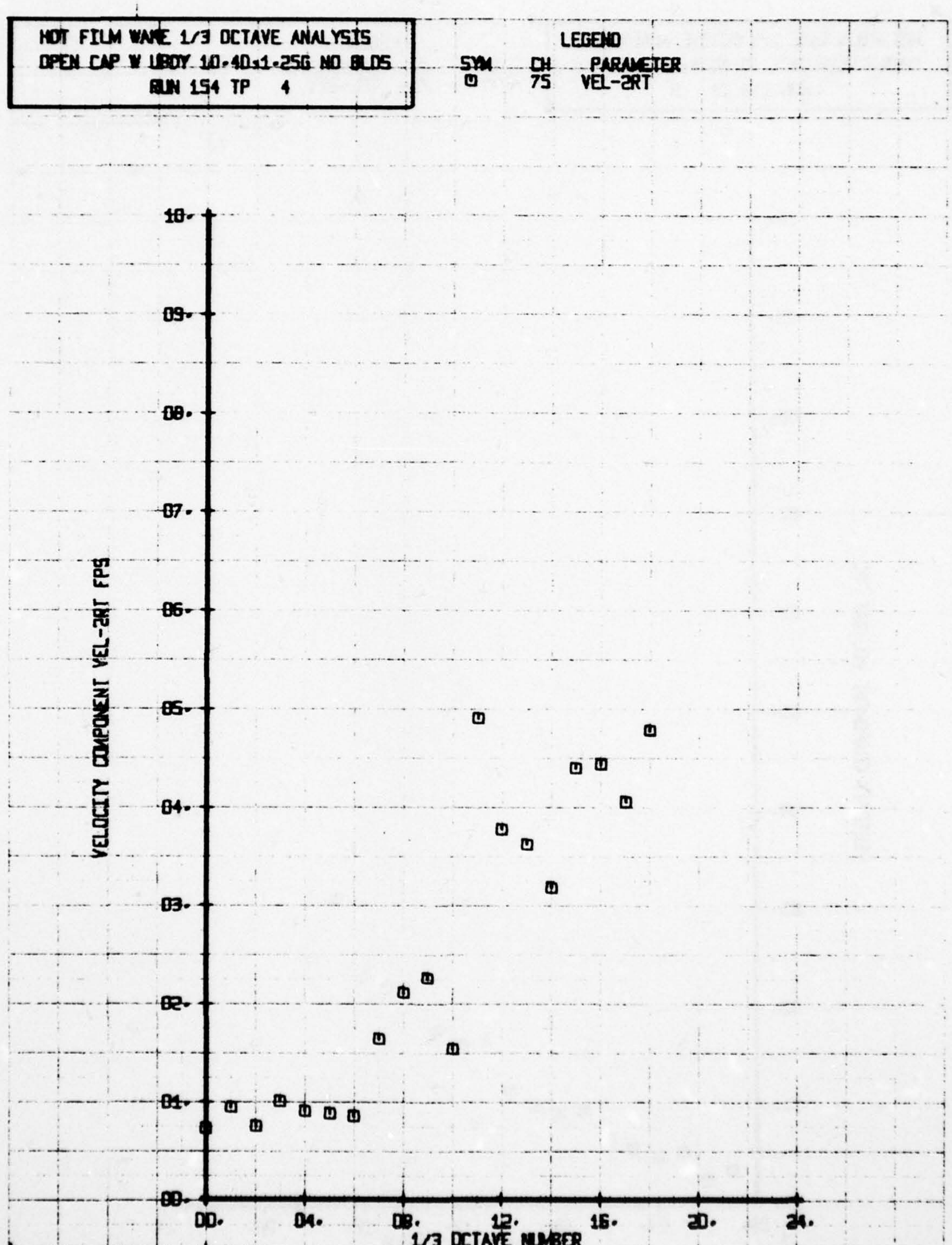
1/3 OCTAVE NUMBER


HOT FILM WANE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBDY 10.40:1.25G NO BLDS
RUN 154 TP 4
LEGEND
SYM CH PARAMETER
75 VEL-2RT
VELOCITY COMPONENT VEL-2RT FPS
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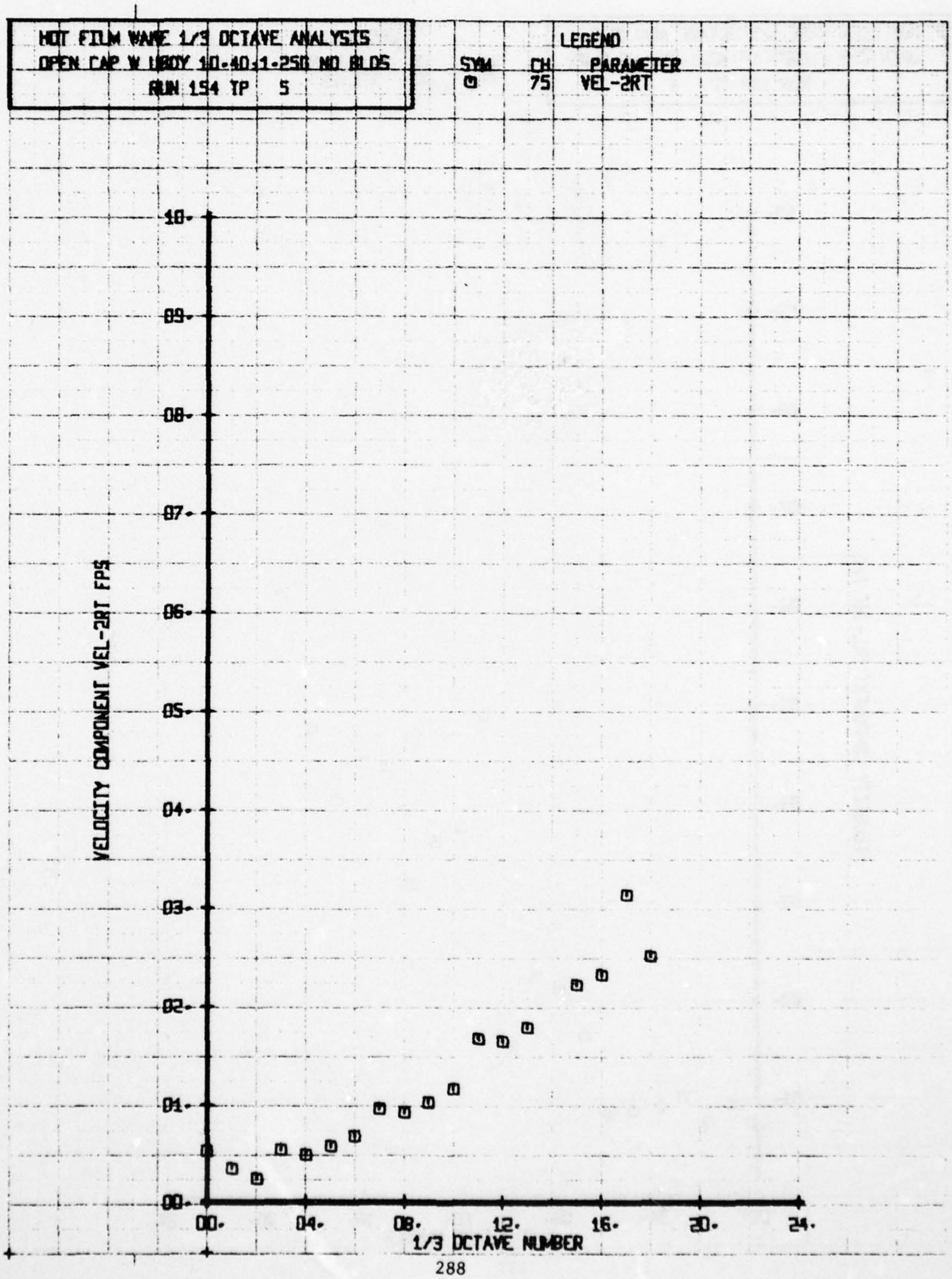
1/3 OCTAVE NUMBER



HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBOY 10-40-1-250 NO BLDS
RUN 154 TP 5
LEGEND
SYM CH PARAMETER
75 VEL-2RT
VELOCITY COMPONENT VEL-2RT FPS
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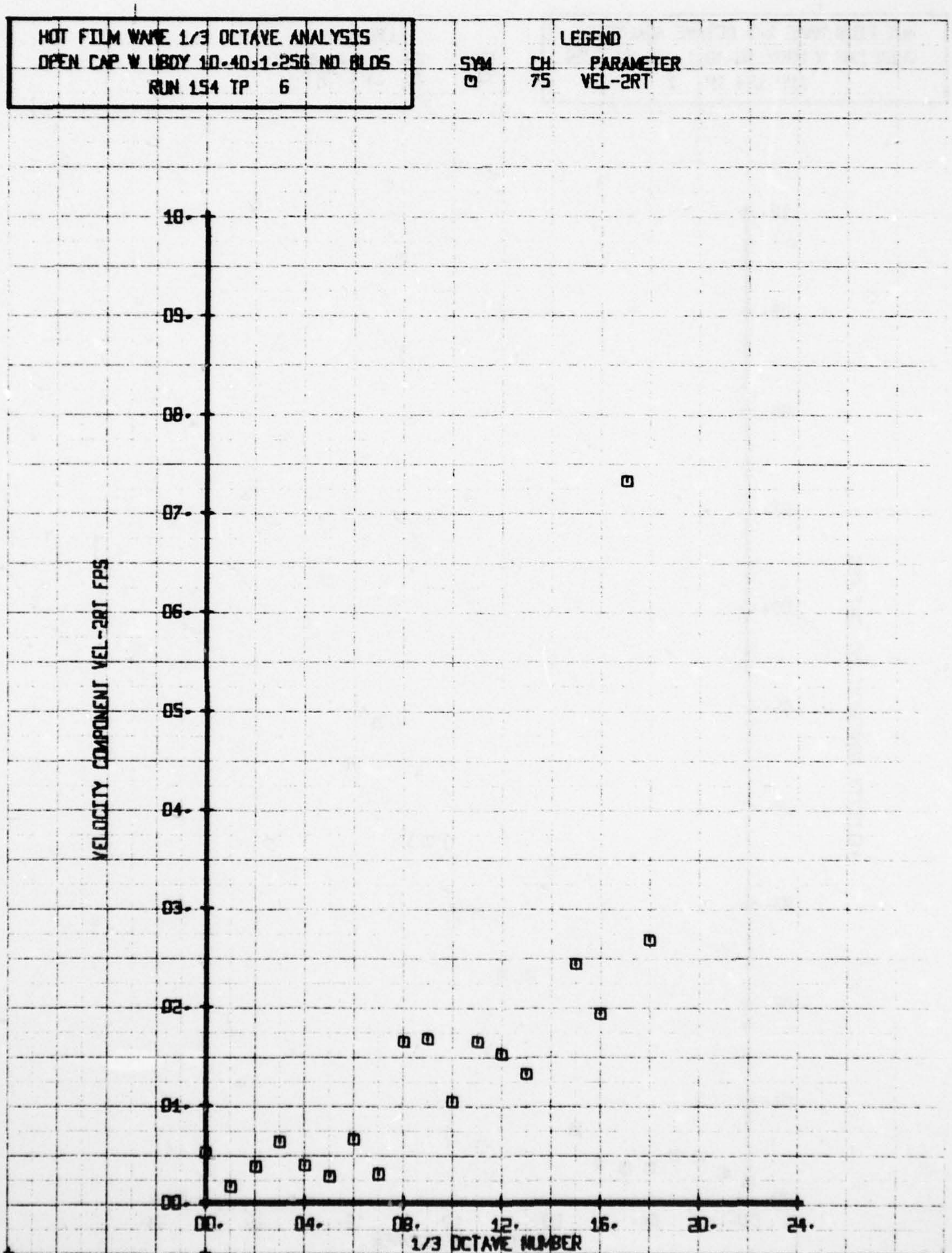
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBOY 10-40-1-25G NO BLDS
RUN 154 TP 6
LEGEND
SYM CH PARAMETER
75 VEL-2RT
VELOCITY COMPONENT VEL-2RT FPS
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1/3 OCTAVE NUMBER

AD-A062 140 BOEING VERTOL CO PHILADELPHIA PA F/G 1/3
INTERACTIONAL AERODYNAMICS OF THE SINGLE ROTOR HELICOPTER CONFI--ETC(U)
SEP 78 P F SHERIDAN DAAJ02-77-C-0020

UNCLASSIFIED USARTL-TR-78-23F-V-6-C NL

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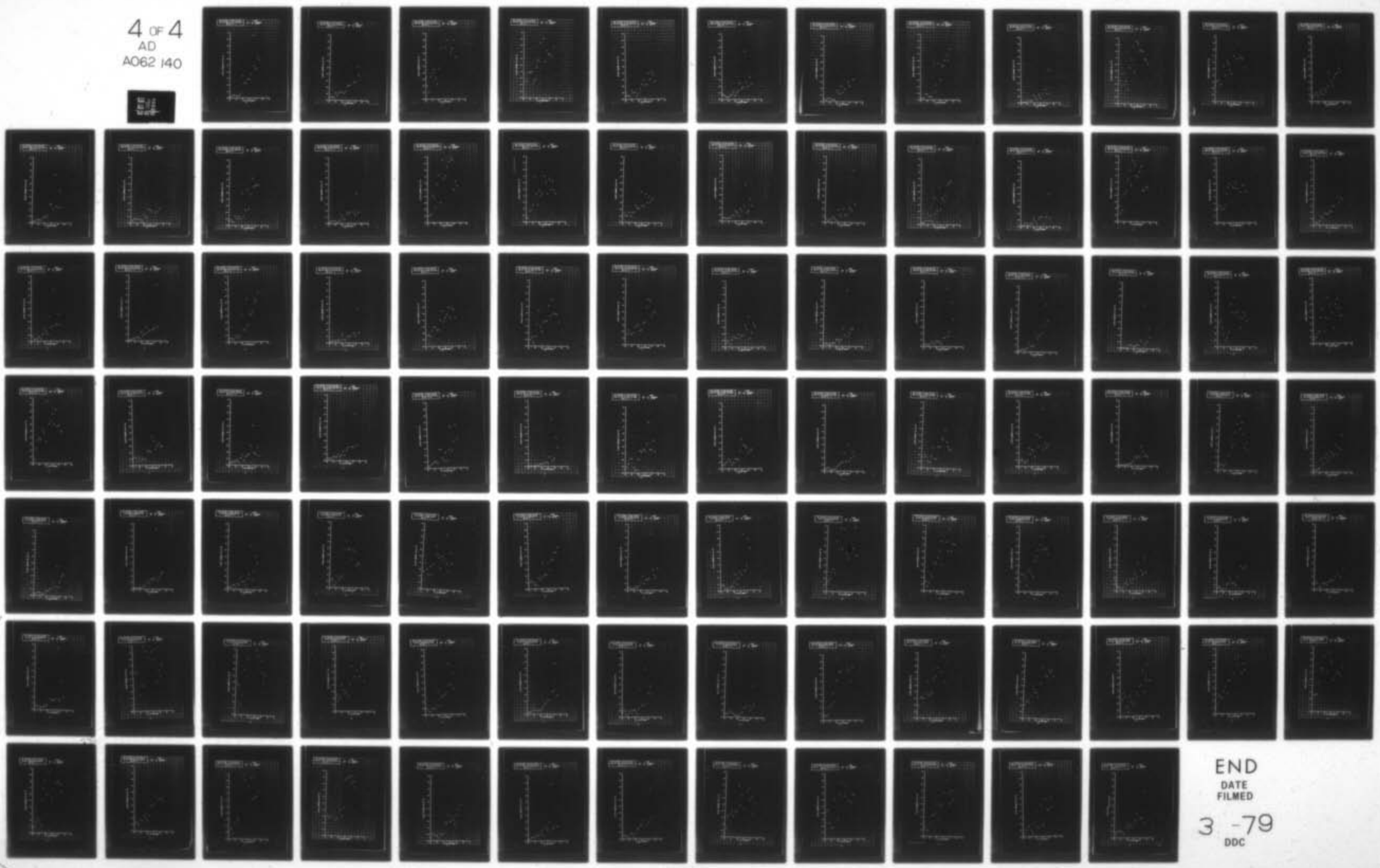

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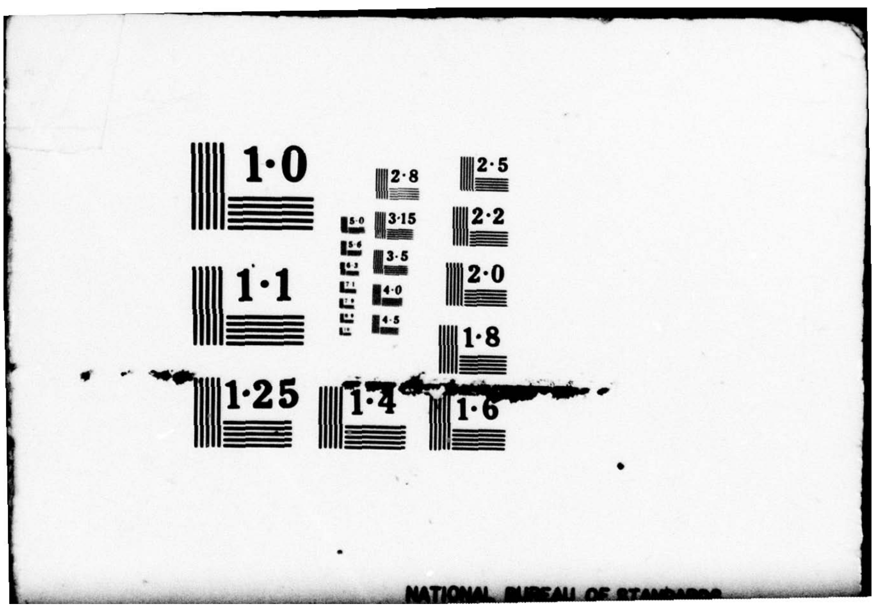
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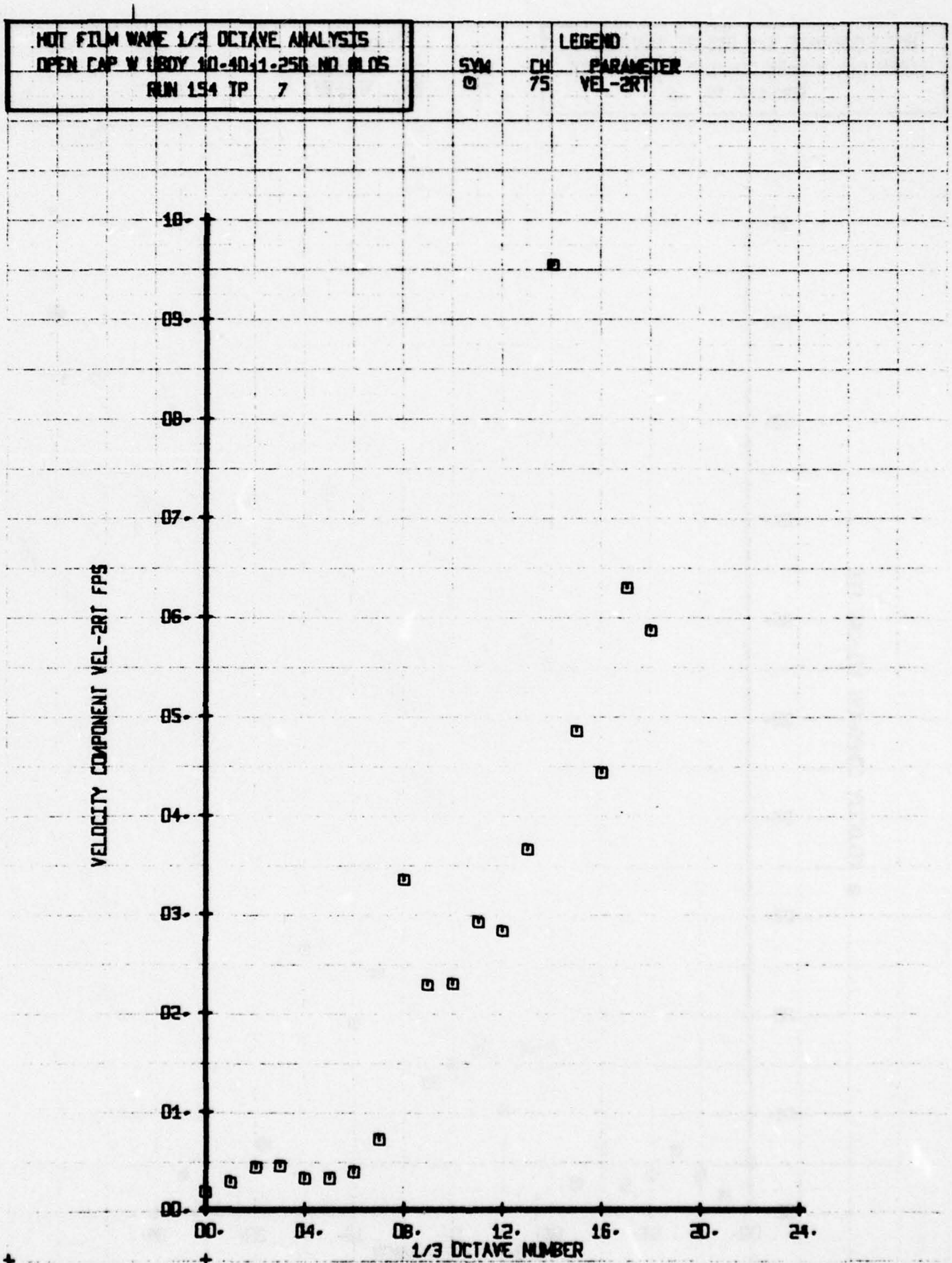
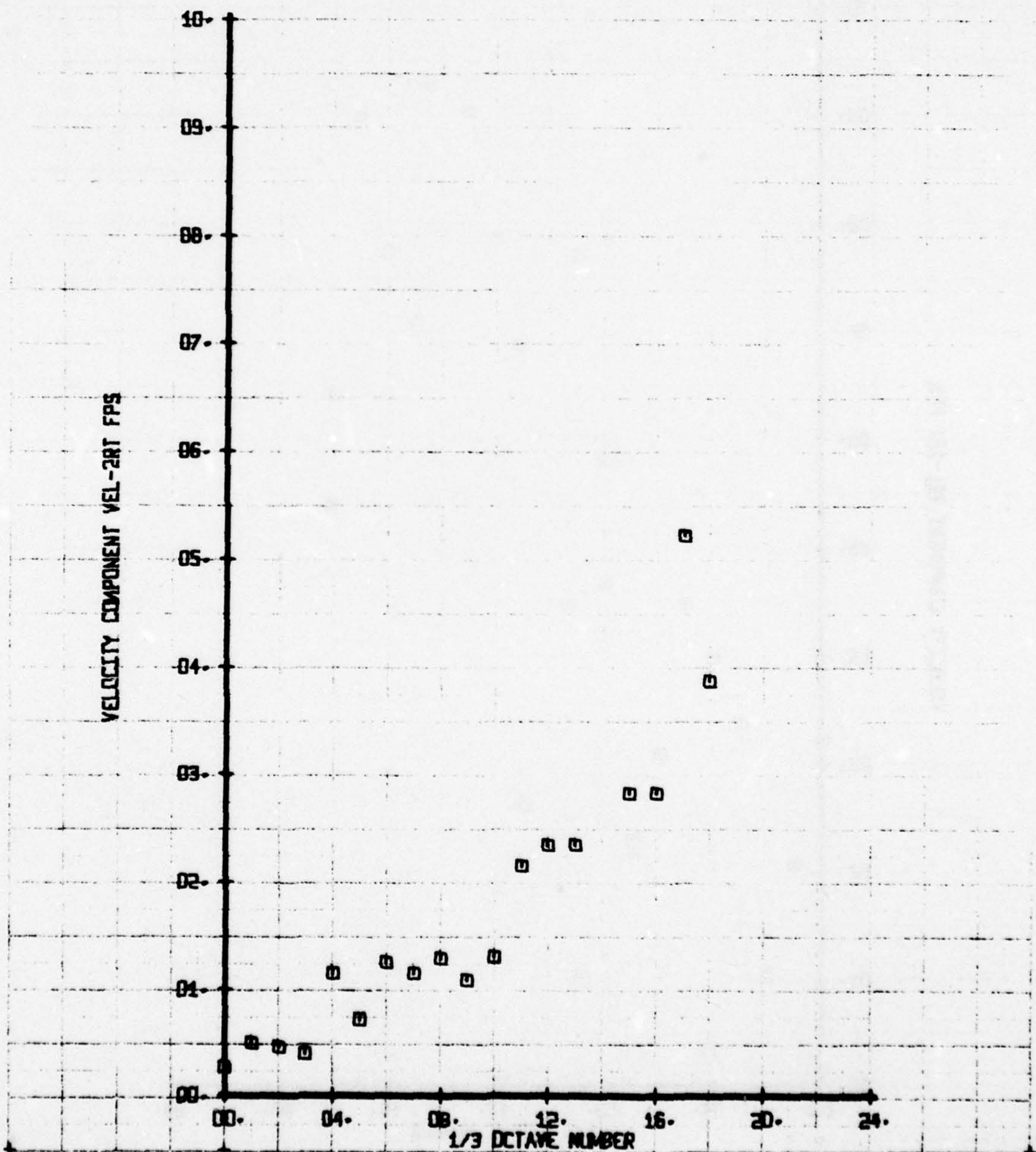
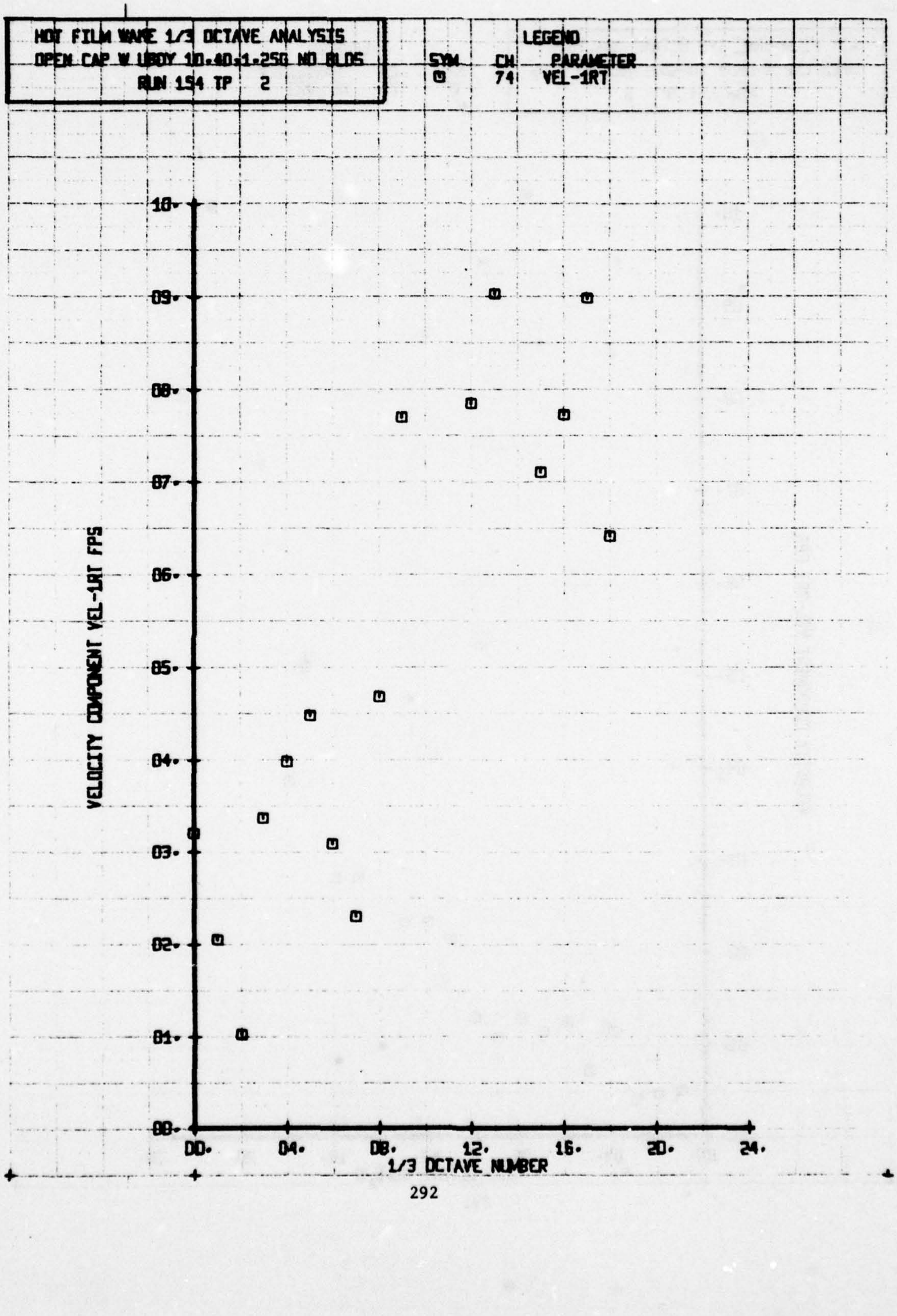
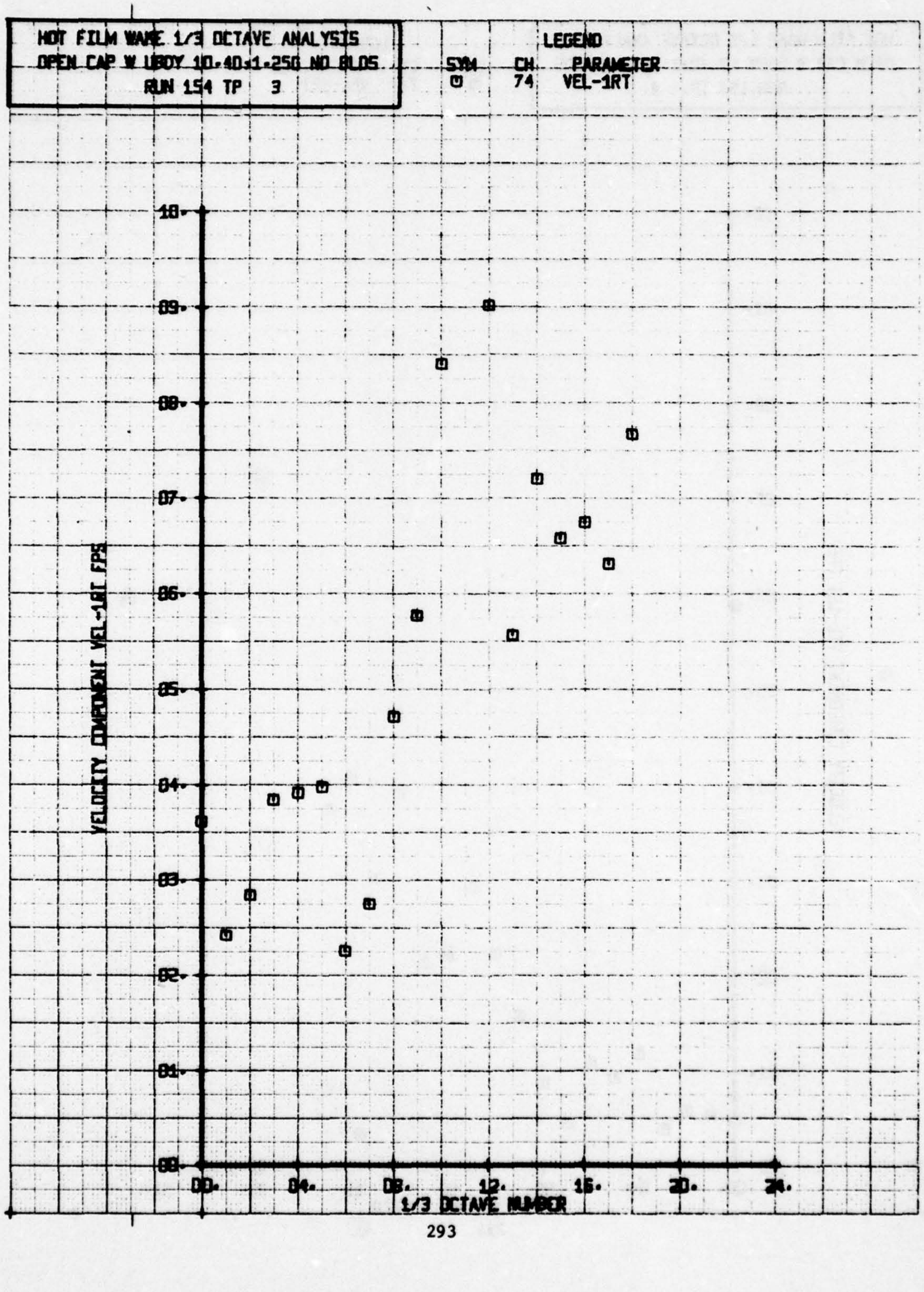

HOT FILM WAVE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBOY 10-40-1-25G NO BLOS
RUN 154 TP 7
LEGEND
SYM CH PARAMETER
75 VEL-2RT
VELOCITY COMPONENT VEL-2RT FPS
1/3 OCTAVE NUMBER

HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBOY 10-40:1-25G NO BLDS
RUN 154 TP 8

LEGEND		
SYM	CH	PARAMETER
⊡	75	VEL-2RT




HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBOY 10.40.1.25G NO BLDS
RUN 154 TP 2
LEGEND
SYM CH PARAMETER
74 VEL-1RT
VELOCITY COMPONENT VEL-1RT FPS
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBOY 10.40:1.25G NO BLDS
RUN 154 TP 3
LEGEND
SYM CH PARAMETER
74 VEL-1RT
VELOCITY COMPONENT VEL-1RT FPS
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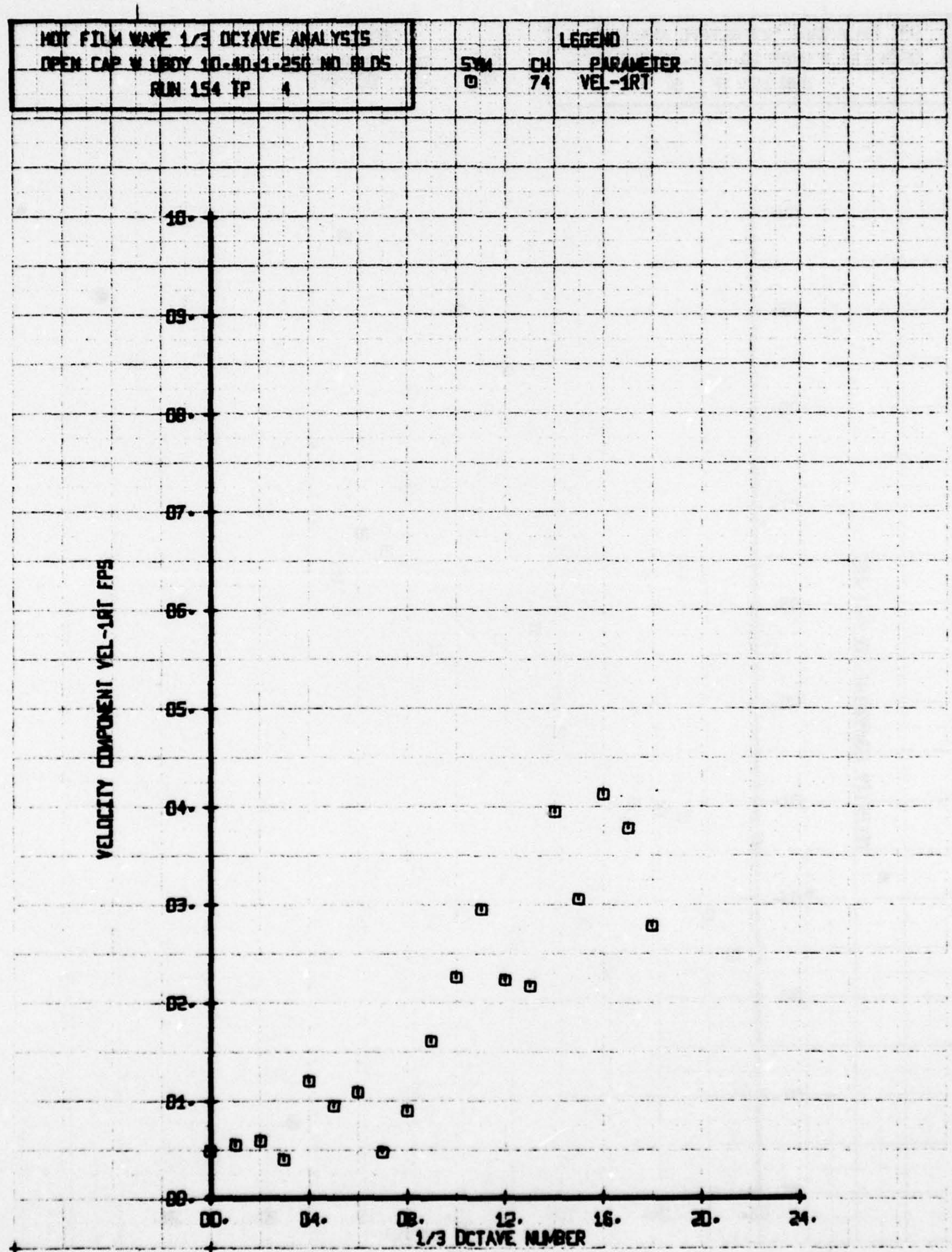
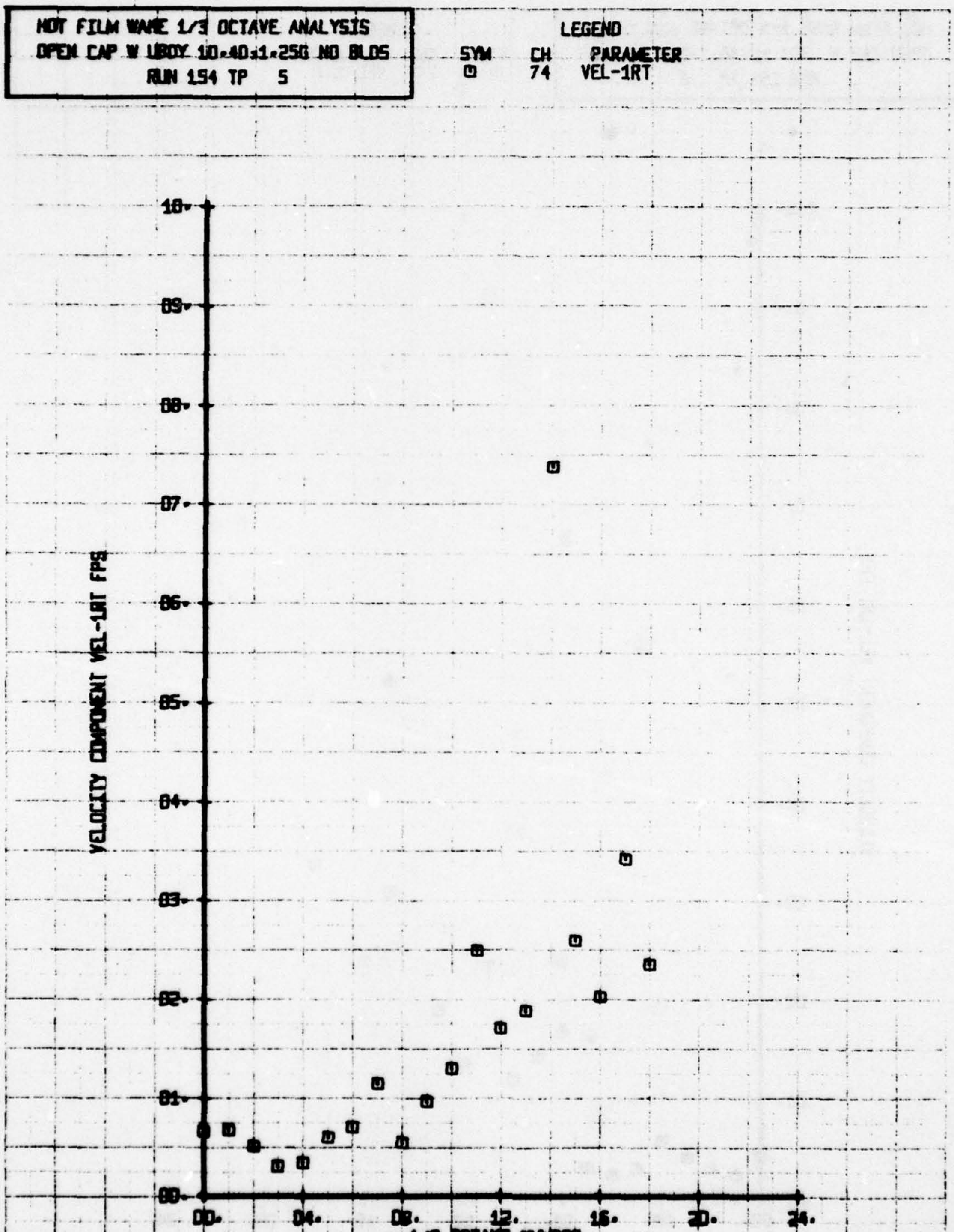
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBOY 10.4D.1.25D NO BLDS
RUN 154 TP 4
LEGEND
SYM CH PARAMETER
74 VEL-1RT
VELOCITY COMPONENT VEL-1RT FPS
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBOY 10.40:1.25G NO BLDS
RUN 154 TP 5
LEGEND
SYM CH PARAMETER
74 VEL-1RT
VELOCITY COMPONENT VEL-1RT FPS
1/3 OCTAVE NUMBER
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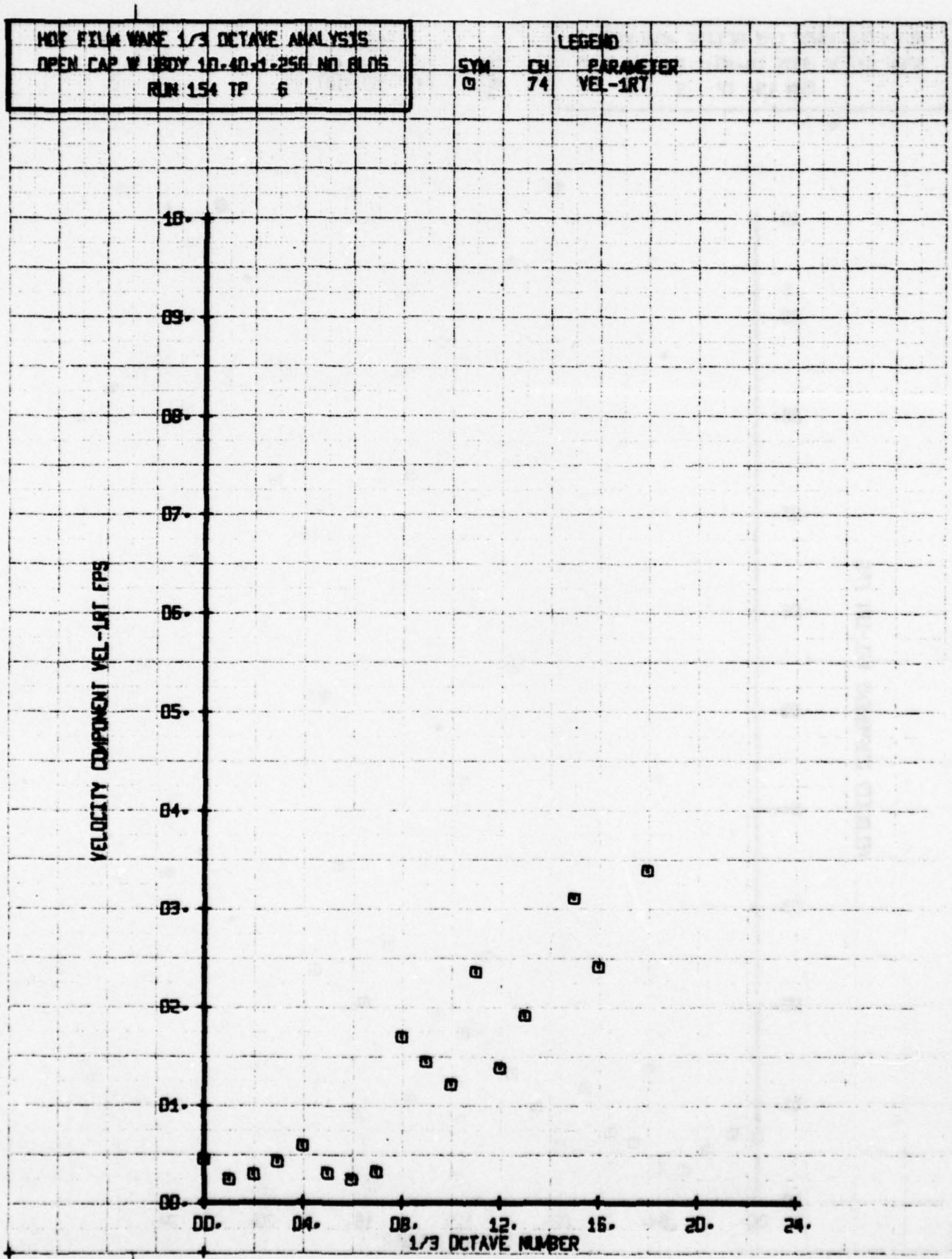
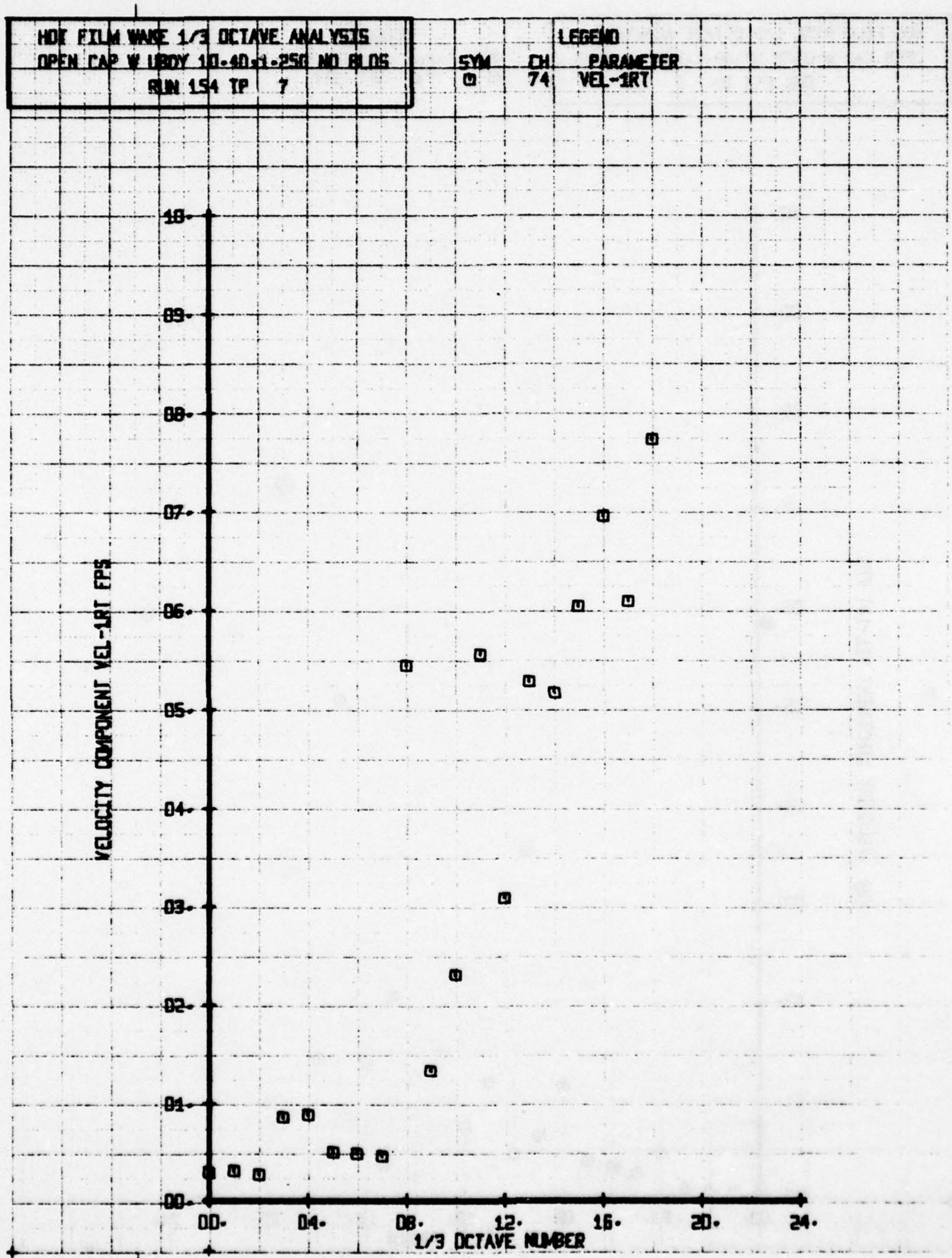
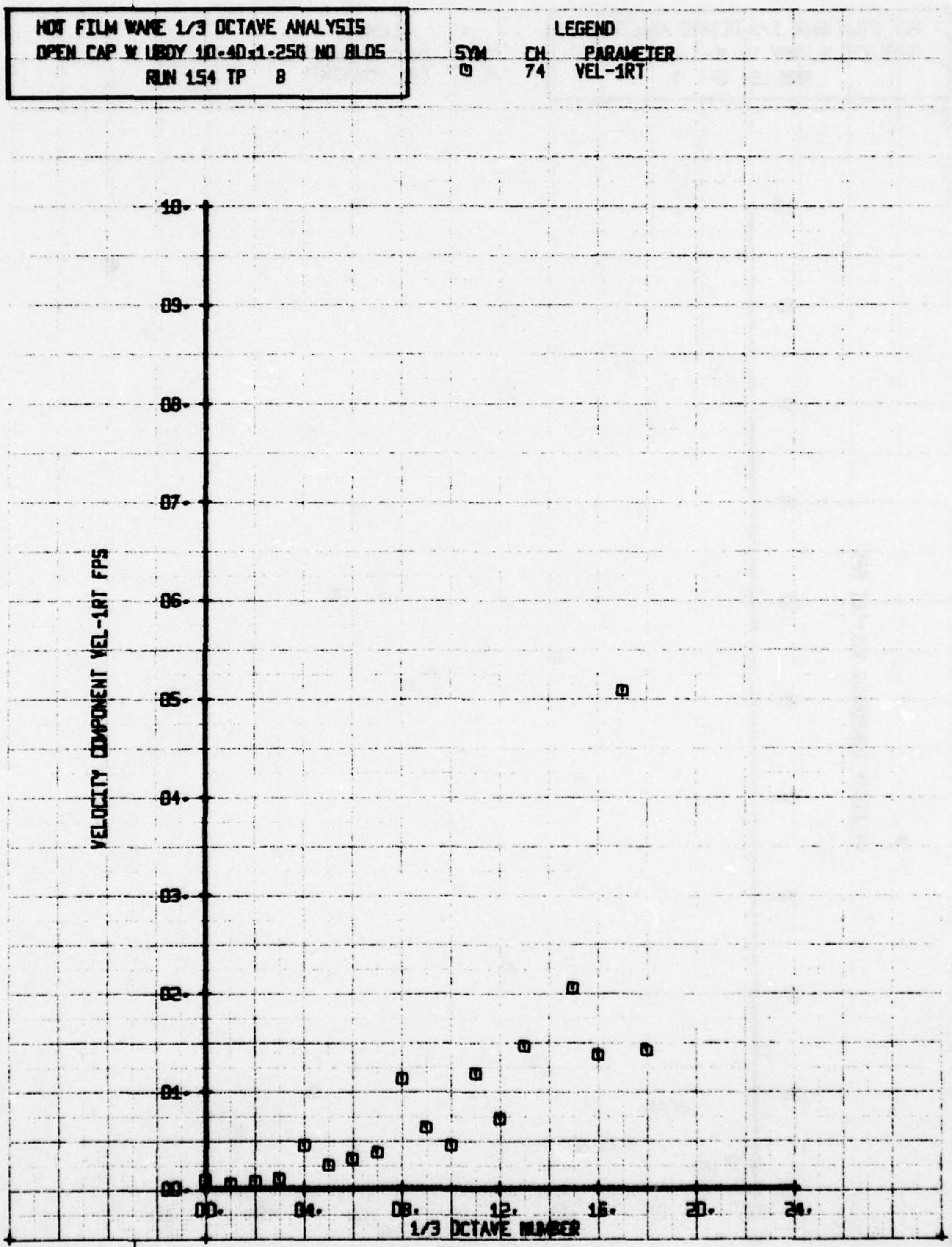

HOE FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBDY 10.40.1.256 NO.BLDS
RUN 154 TP 6
LEGEND
SYM CH PARAMETER
74 VEL-1RT
VELOCITY COMPONENT VEL-1RT FPS
00. 04. 08. 12. 16. 20. 24.
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBOY 10-40-1-250 NO BLGS
RUN 154 TP 7
LEGEND
SYM CH PARAMETER
74 VEL-1RT
VELOCITY COMPONENT VEL-1RT FPS
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBOY 10.40.1.250 NO BLDS
RUN 154 TP 8
LEGEND
SYM CH. PARAMETER
74 VEL-1RT
VELOCITY COMPONENT VEL-1RT FPS
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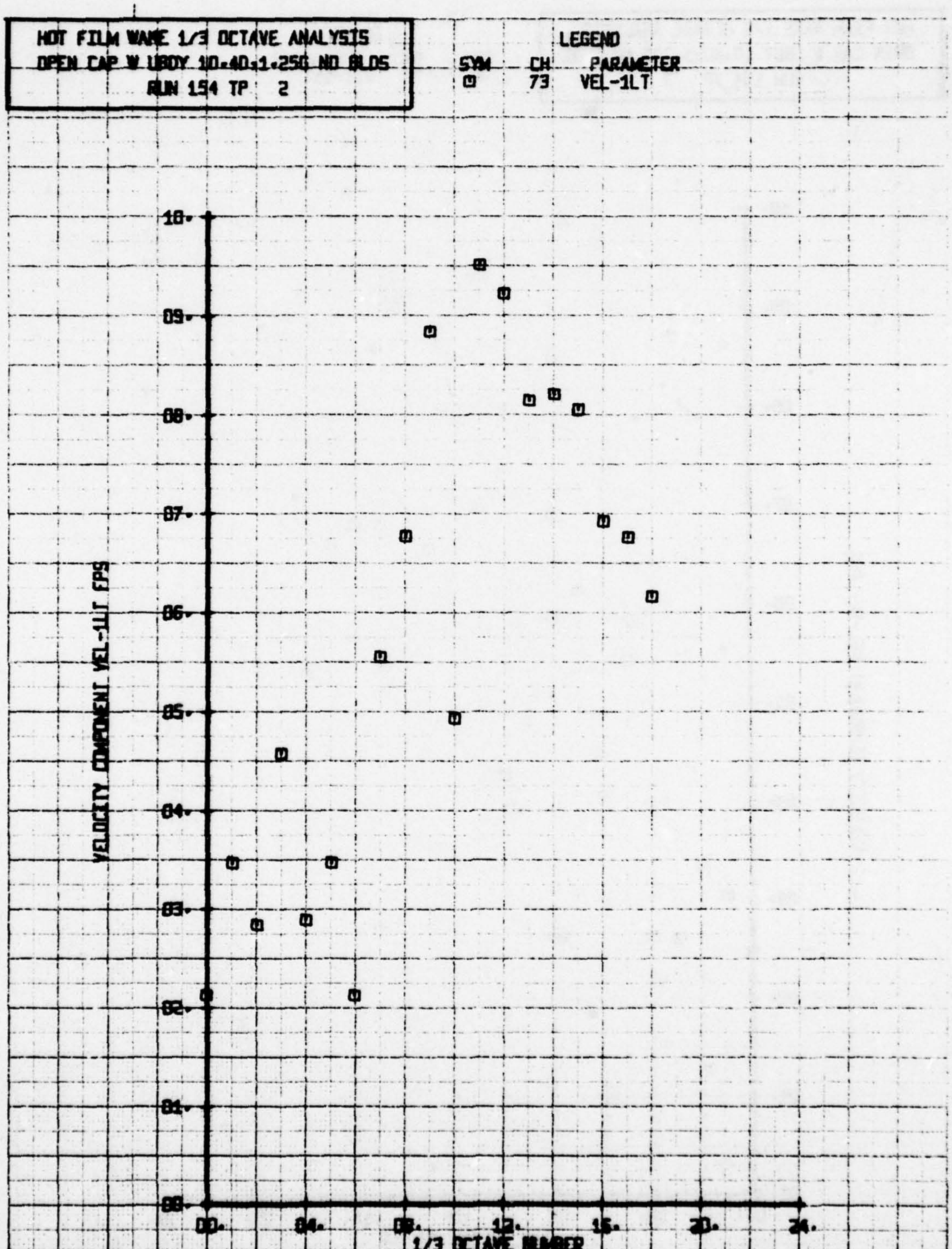
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBDY 10.4D,1.25C NO BLDS
RUN 154 TP 2
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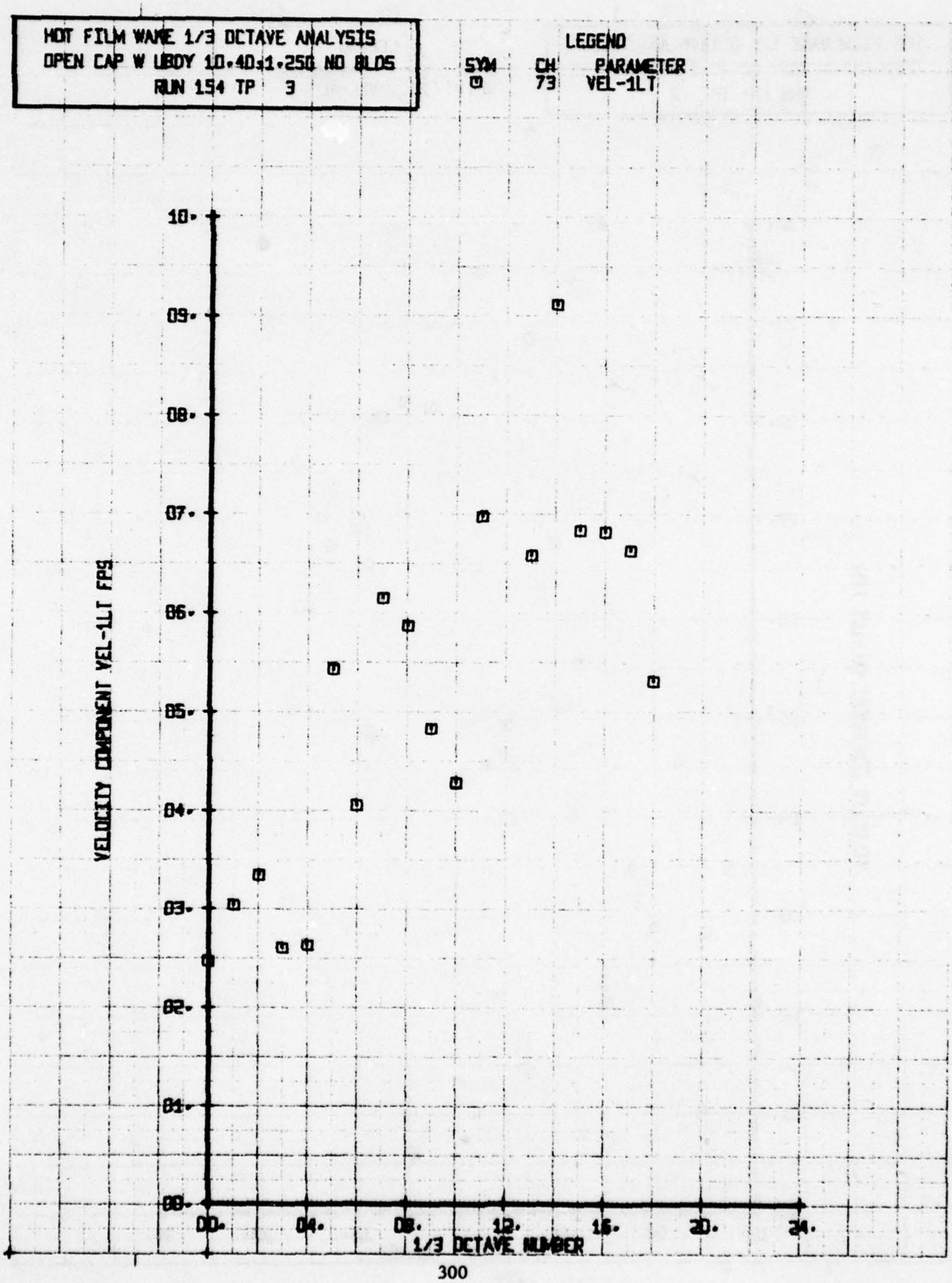
SYM CH PARAMETER
73 VEL-1LT
VELOCITY COMPONENT VEL-1LT FPS
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBDY 10.4D:1.25D NO BLDS
RUN 154 TP 3
LEGEND
SYM CH PARAMETER
73 VEL-1LT
VELOCITY COMPONENT VEL-1LT FPS
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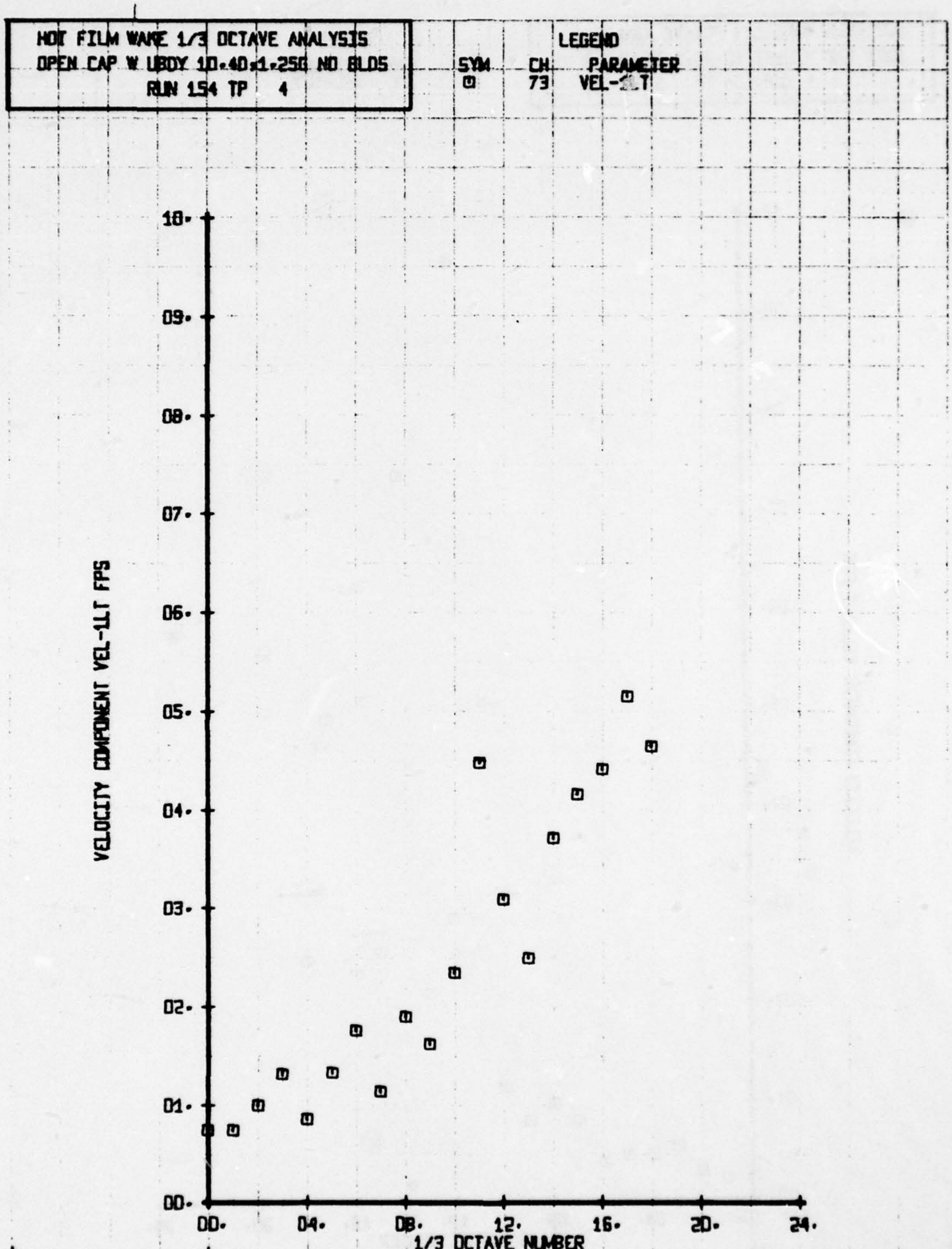
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBOY 10.40x1.25G NO BLDS
RUN 154 TP 4
LEGEND
SYM CH PARAMETER
73 VEL-1LT
VELOCITY COMPONENT VEL-1LT FPS
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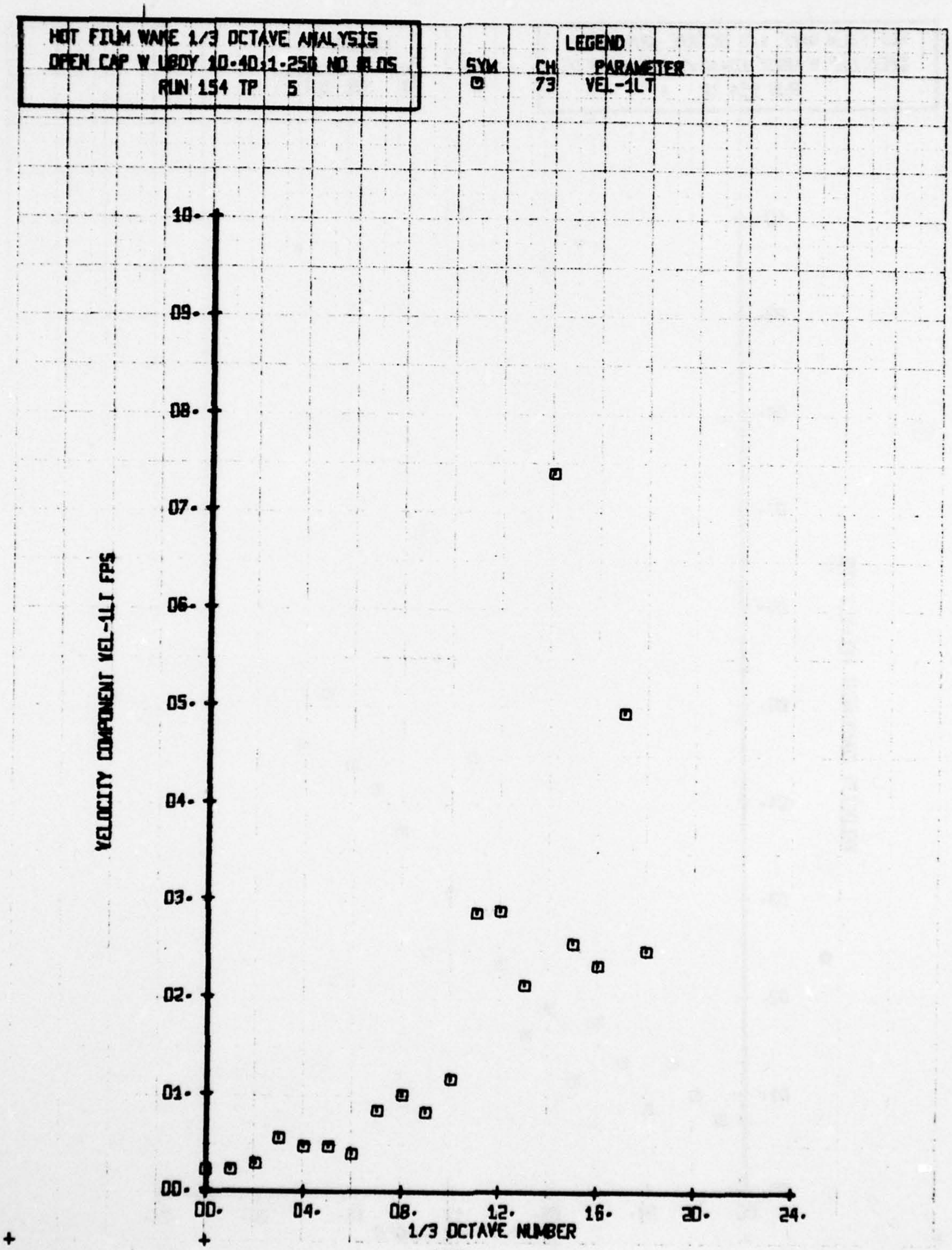
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBDY 10-40-1-250 NO BLDS
RUN 154 TP 5
LEGEND
SYM CH PARAMETER
73 VEL-1LT
VELOCITY COMPONENT VEL-1LT FPS
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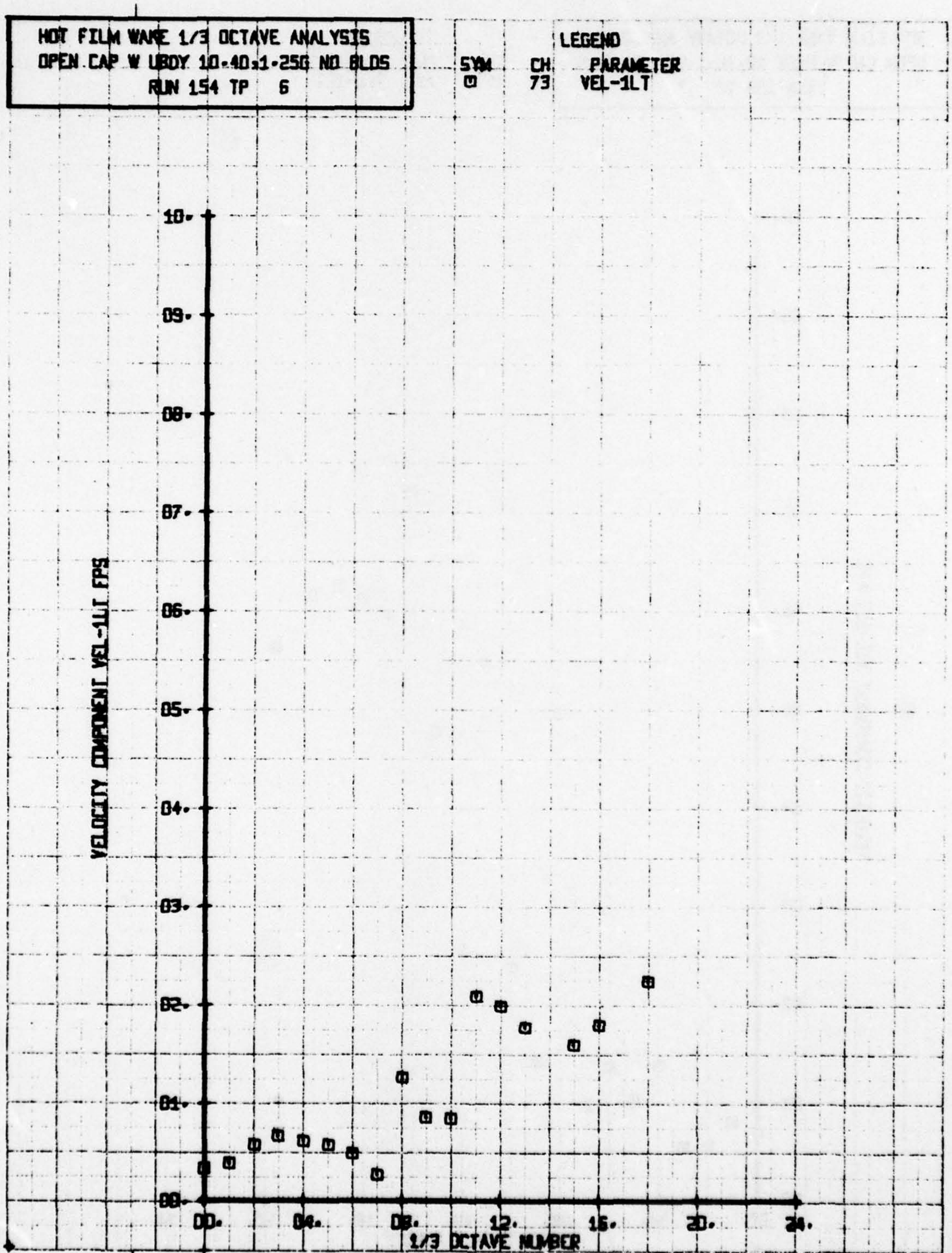
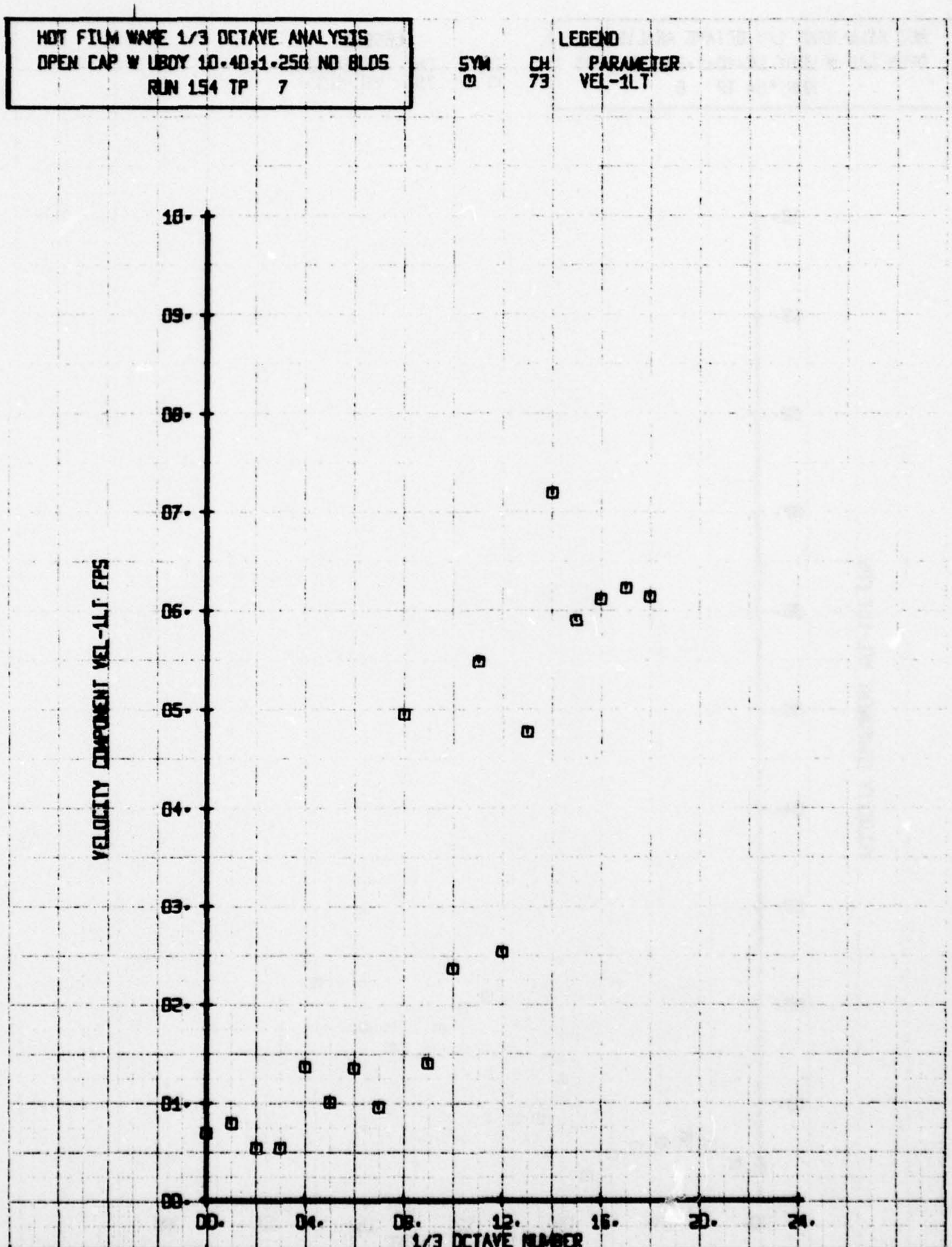

HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBDY 10.40:1.25G NO BLDS
RUN 154 TP 6
LEGEND
SYM CH. PARAMETER
73 VEL-1LT
VELOCITY COMPONENT VEL-1LT FPS
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBOY 10.40±1.250 NO BLDS
RUN 154 TP 7
LEGEND
SYM CH PARAMETER
73 VEL-1LT
VELOCITY COMPONENT VEL-1LT FPS
1/3 OCTAVE NUMBER
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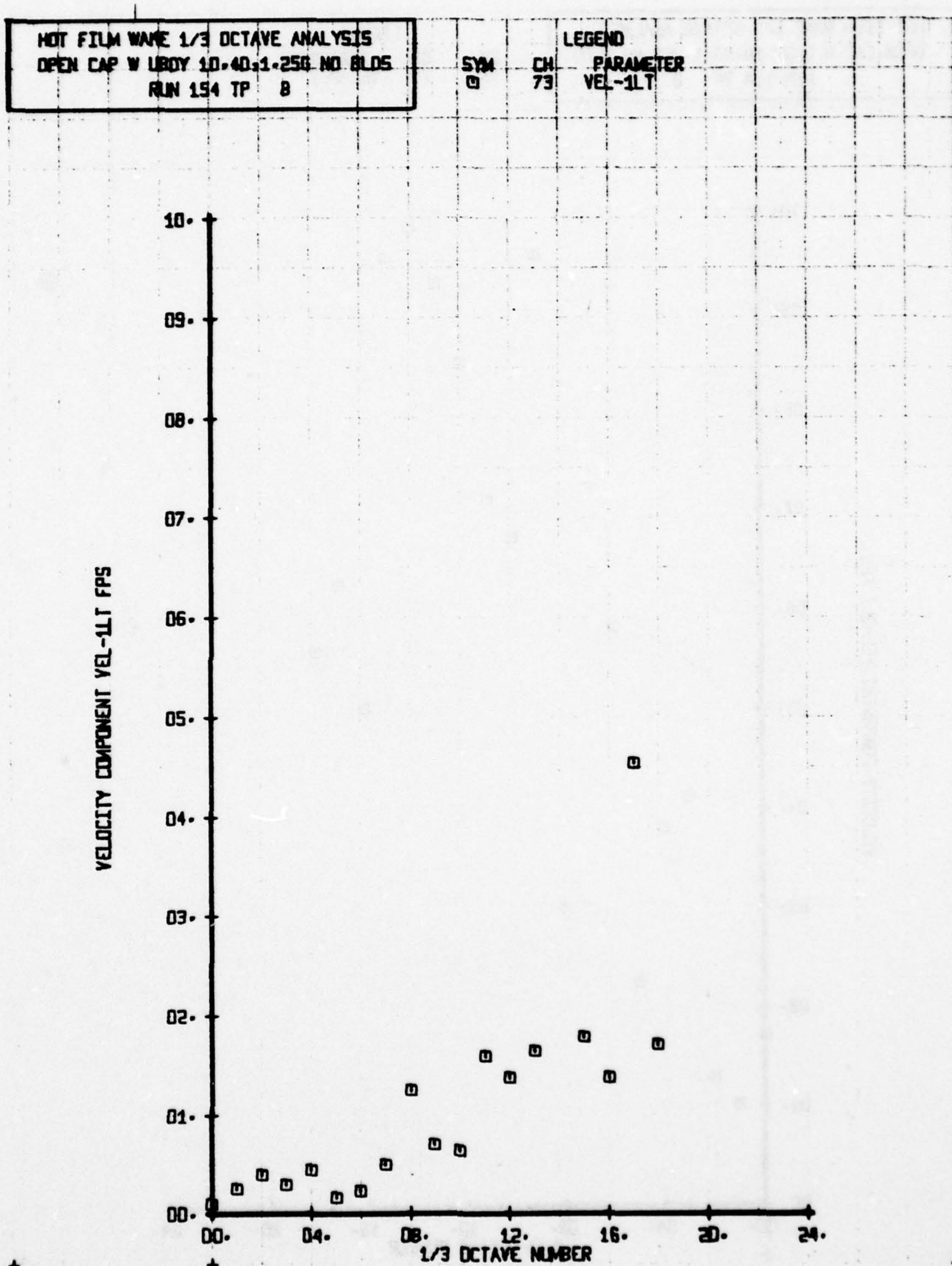
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBOY 10.40,1.25G NO BLDS
RUN 154 TP 8
LEGEND
SYM CH PARAMETER
73 VEL-1LT
VELOCITY COMPONENT VEL-1LT FPS
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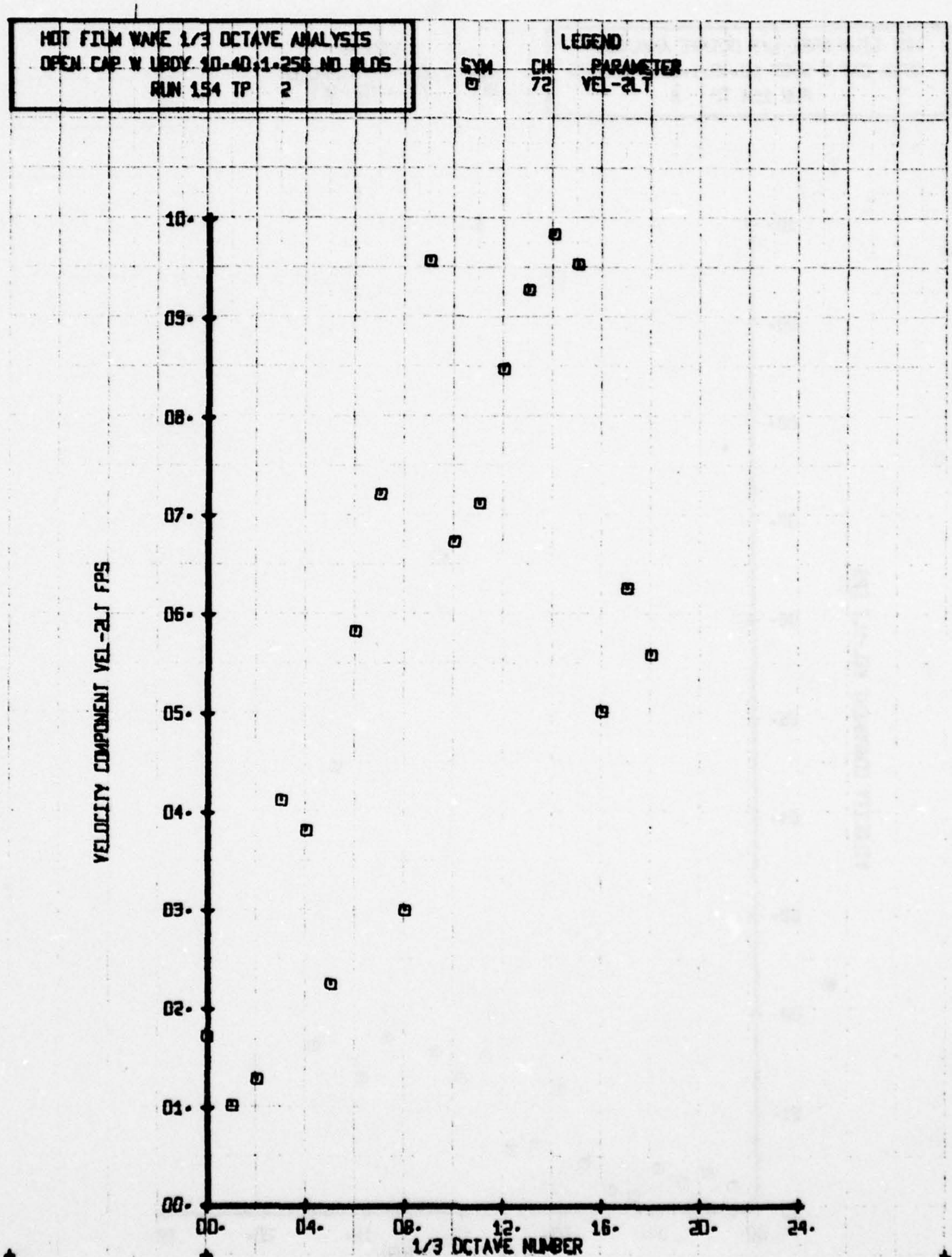
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBOY 10-40:1-256 NO BLDS
RUN 154 TP 2
LEGEND
SYM CH PARAMETER
72 VEL-2LT
VELOCITY COMPONENT VEL-2LT FPS
1/3 OCTAVE NUMBER
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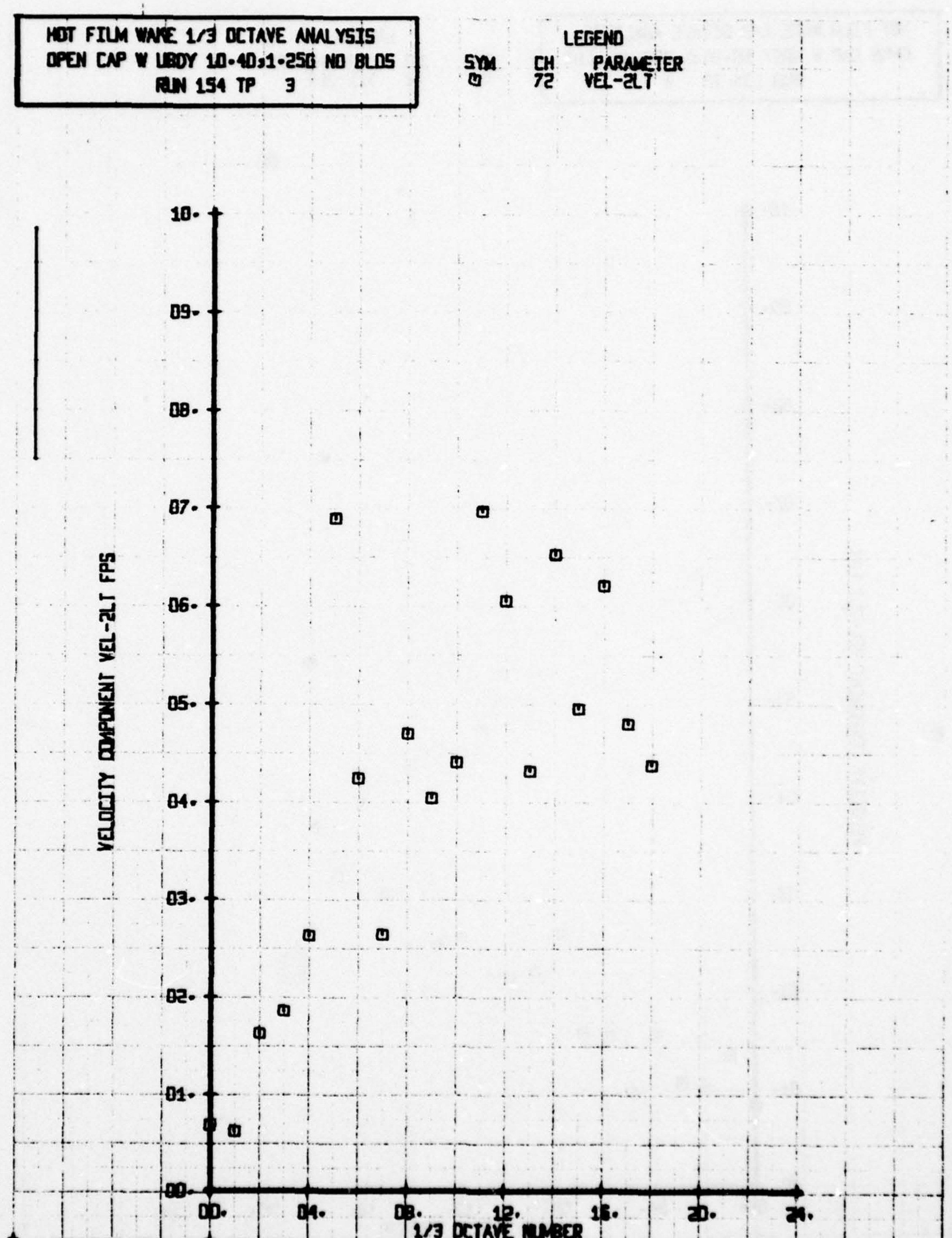
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBDY 10-40:1-25G NO BLDS
RUN 154 TP 3
LEGEND
SYM CH PARAMETER
72 VEL-2LT
VELOCITY COMPONENT VEL-2LT FPS
1/3 OCTAVE NUMBER
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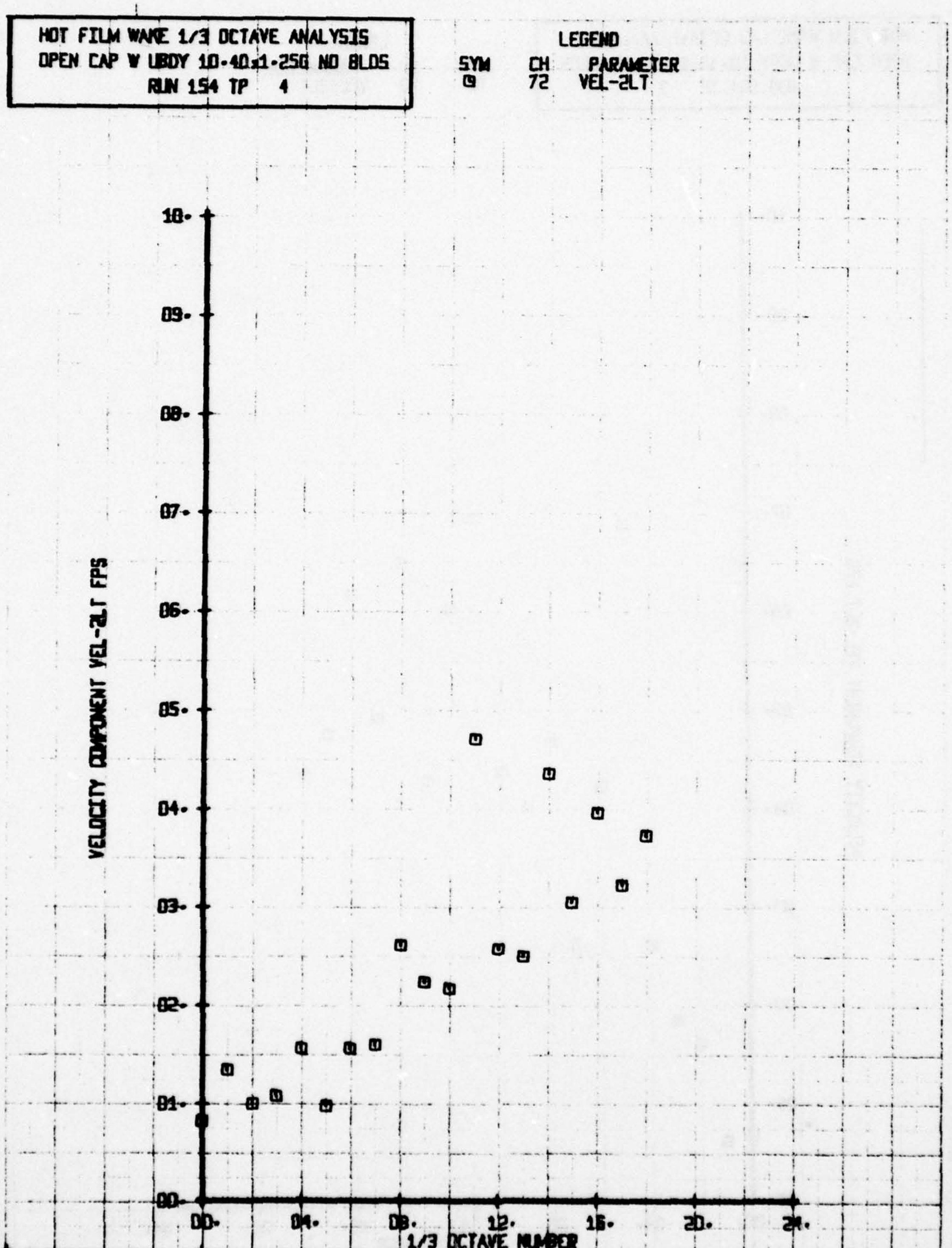
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBOY 10-40x1-25G NO BLDS
RUN 154 TP 4
LEGEND
SYM CH PARAMETER
72 VEL-2LT
VELOCITY COMPONENT VEL-2LT FPS
1/3 OCTAVE NUMBER
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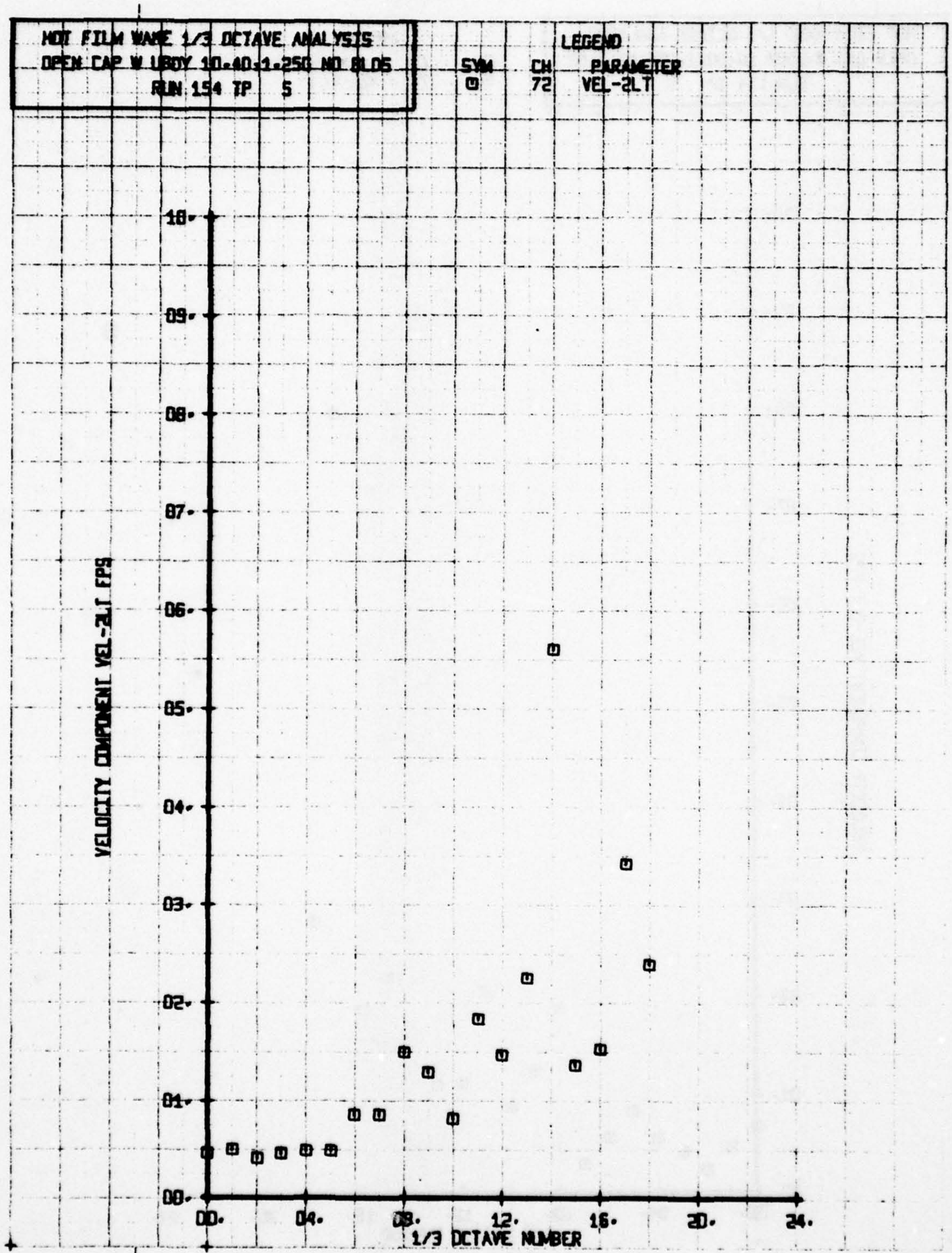
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBOY 10.40.1.25G NO BLDG
RUN 154 TP 5
LEGEND
SYM CH PARAMETER
72 VEL-2LT
VELOCITY COMPONENT VEL-2LT FPS
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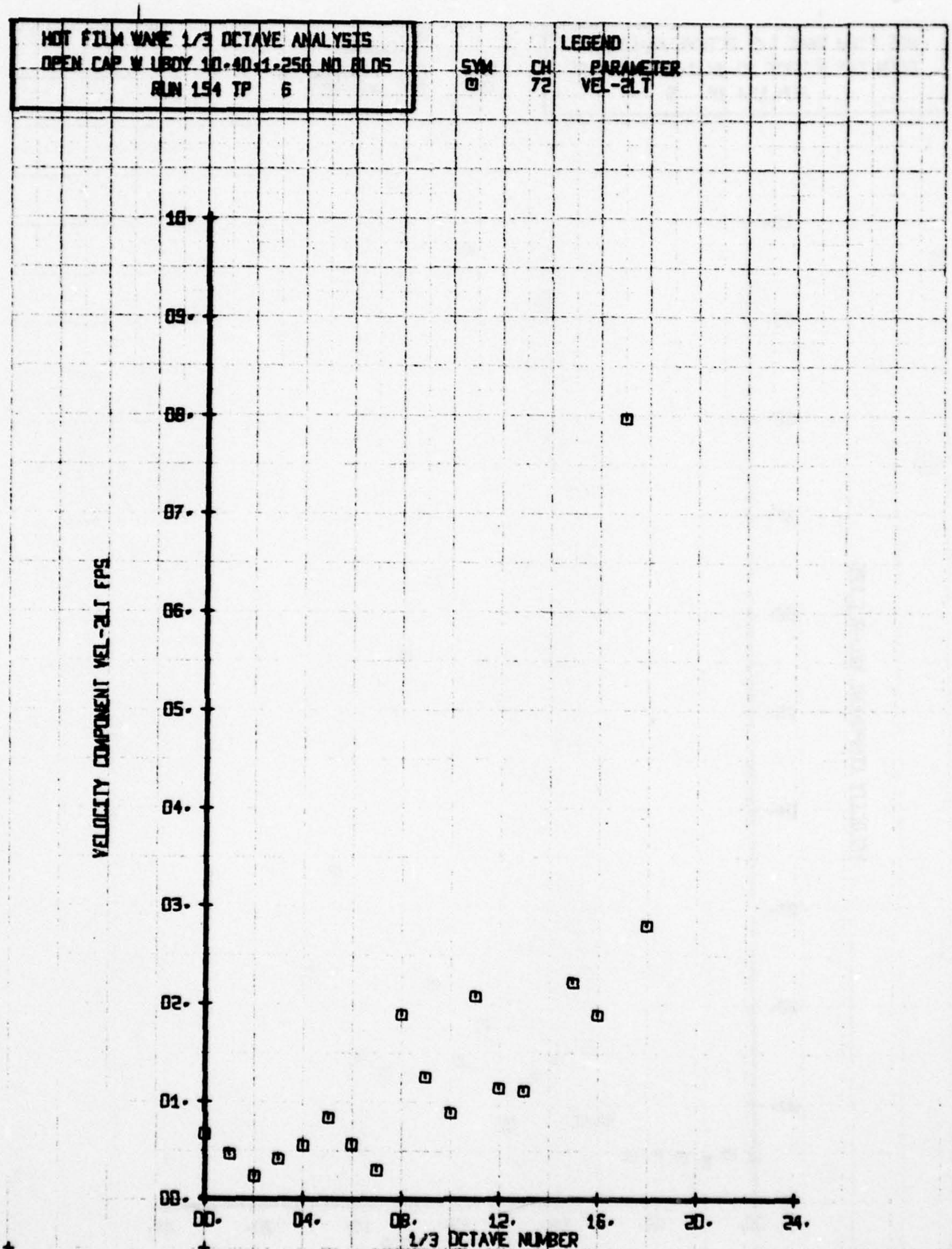
1/3 OCTAVE NUMBER



HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBOY 10.40.1.250 NO BLDS
RUN 154 TP 6
LEGEND
SYM CH PARAMETER
72 VEL-2LT
VELOCITY COMPONENT VEL-2LT FPS
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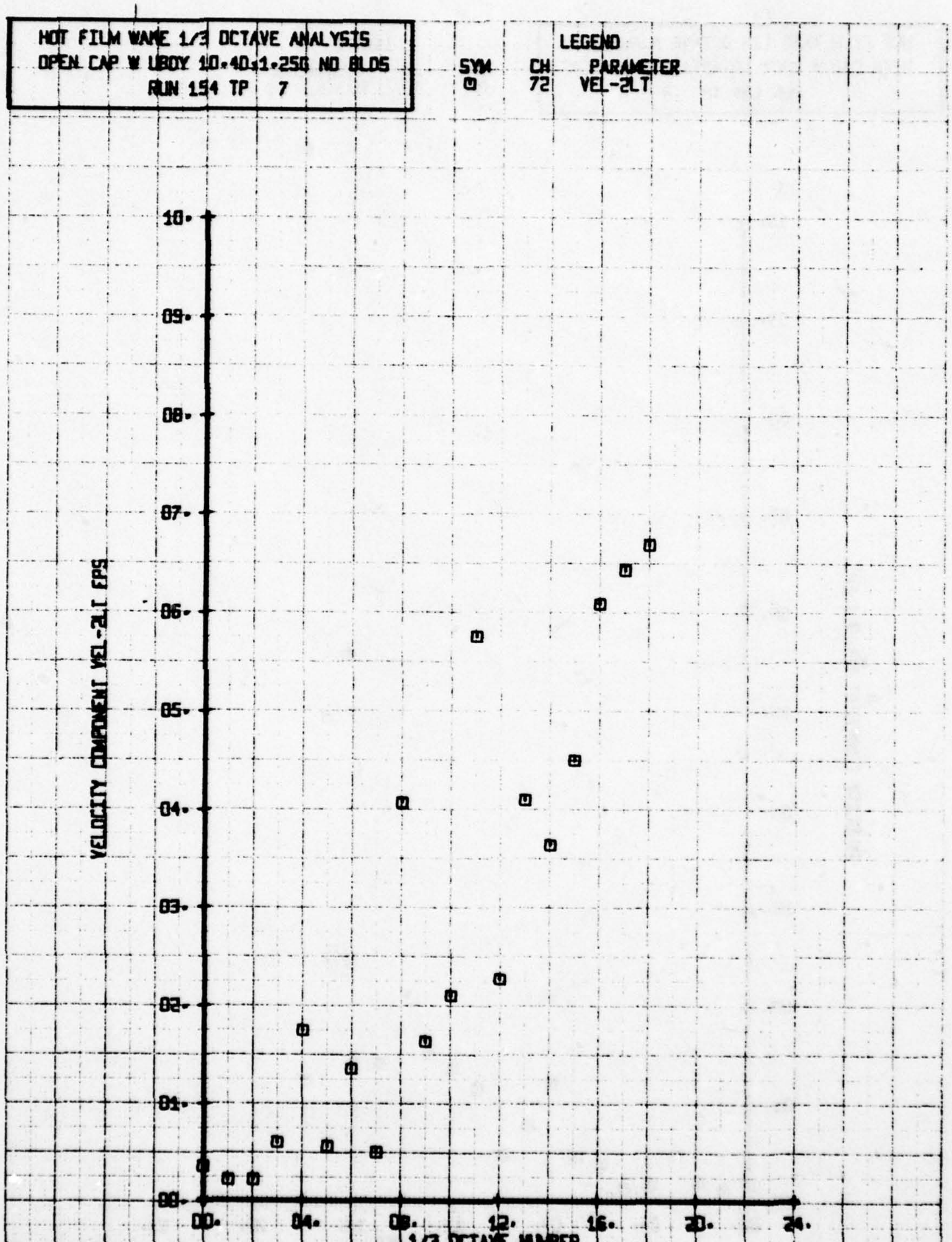
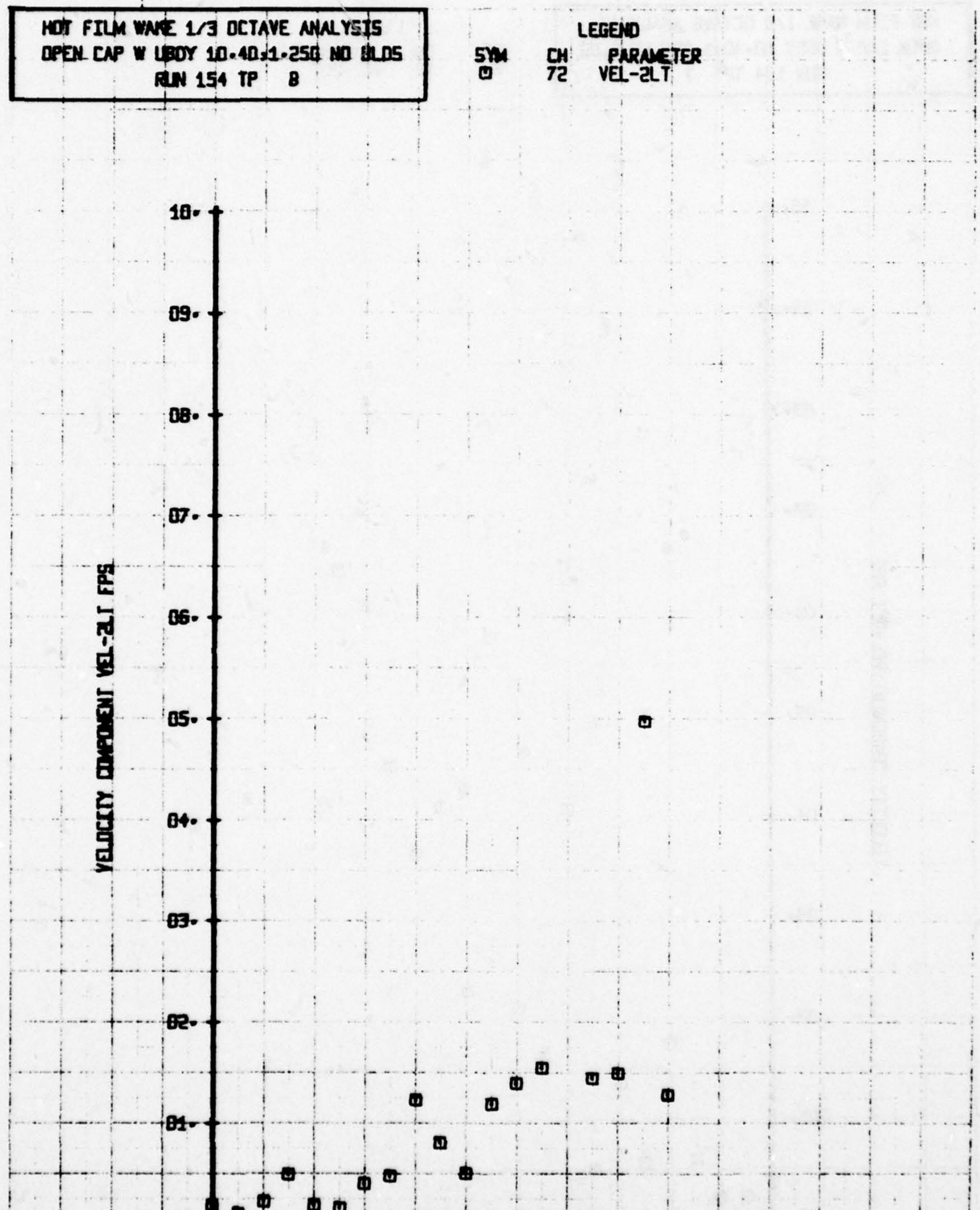
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBOY 10.40.1.25G NO BLDS
RUN 154 TP 7
LEGEND
SYM CH PARAMETER
72 VEL-2LT
VELOCITY COMPONENT VEL-2LT FPS
1/3 OCTAVE NUMBER



HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBDY 10.40:1.250 NO BLDS
RUN 154 TP 8
LEGEND
SYM CH PARAMETER
72 VEL-2LT
VELOCITY COMPONENT VEL-2LT FPS
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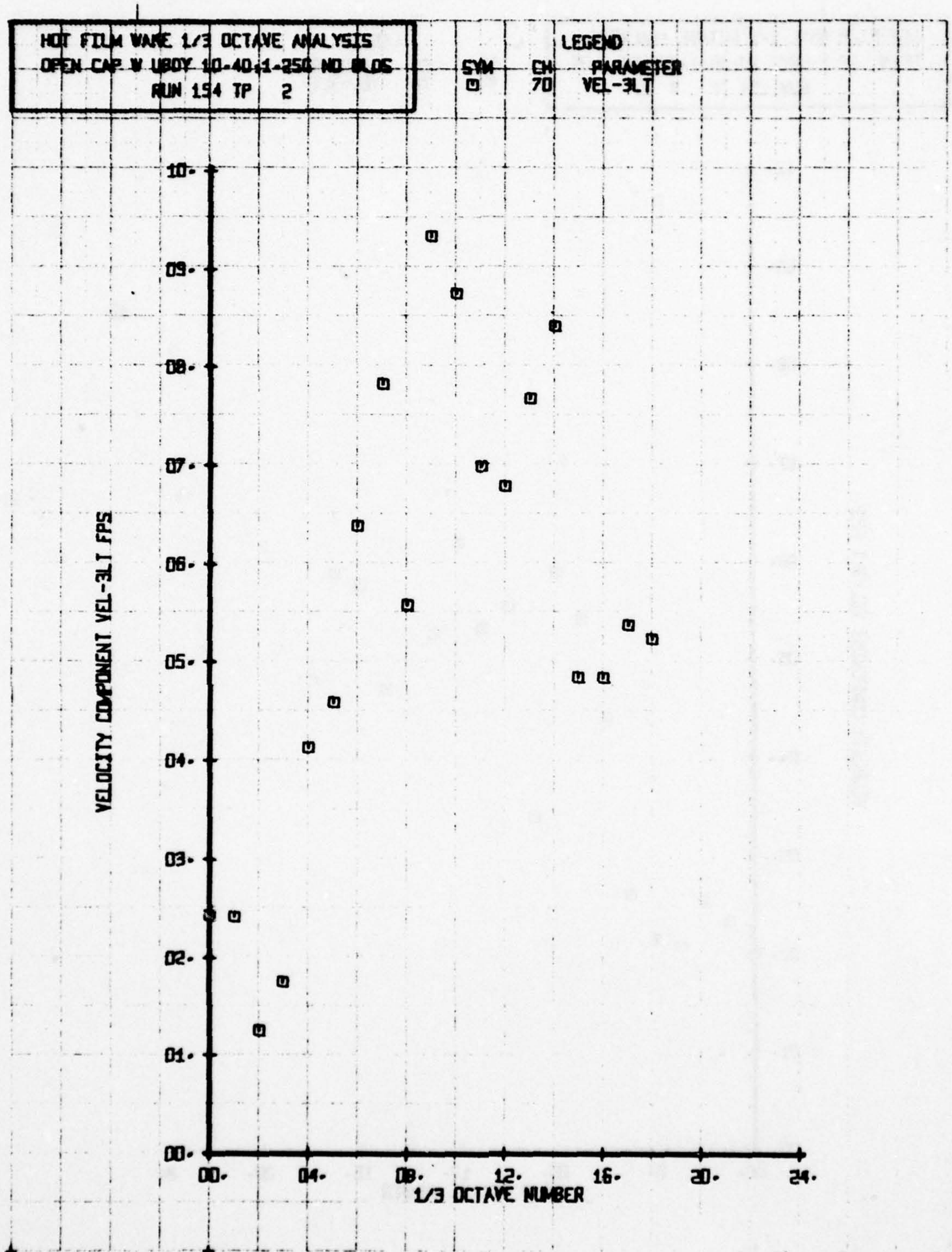
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBOY 10-40,1-250 NO BLDS
RUN 154 TP 2
LEGEND
SYM CH PARAMETER
70 VEL-3LT
VELOCITY COMPONENT VEL-3LT FPS
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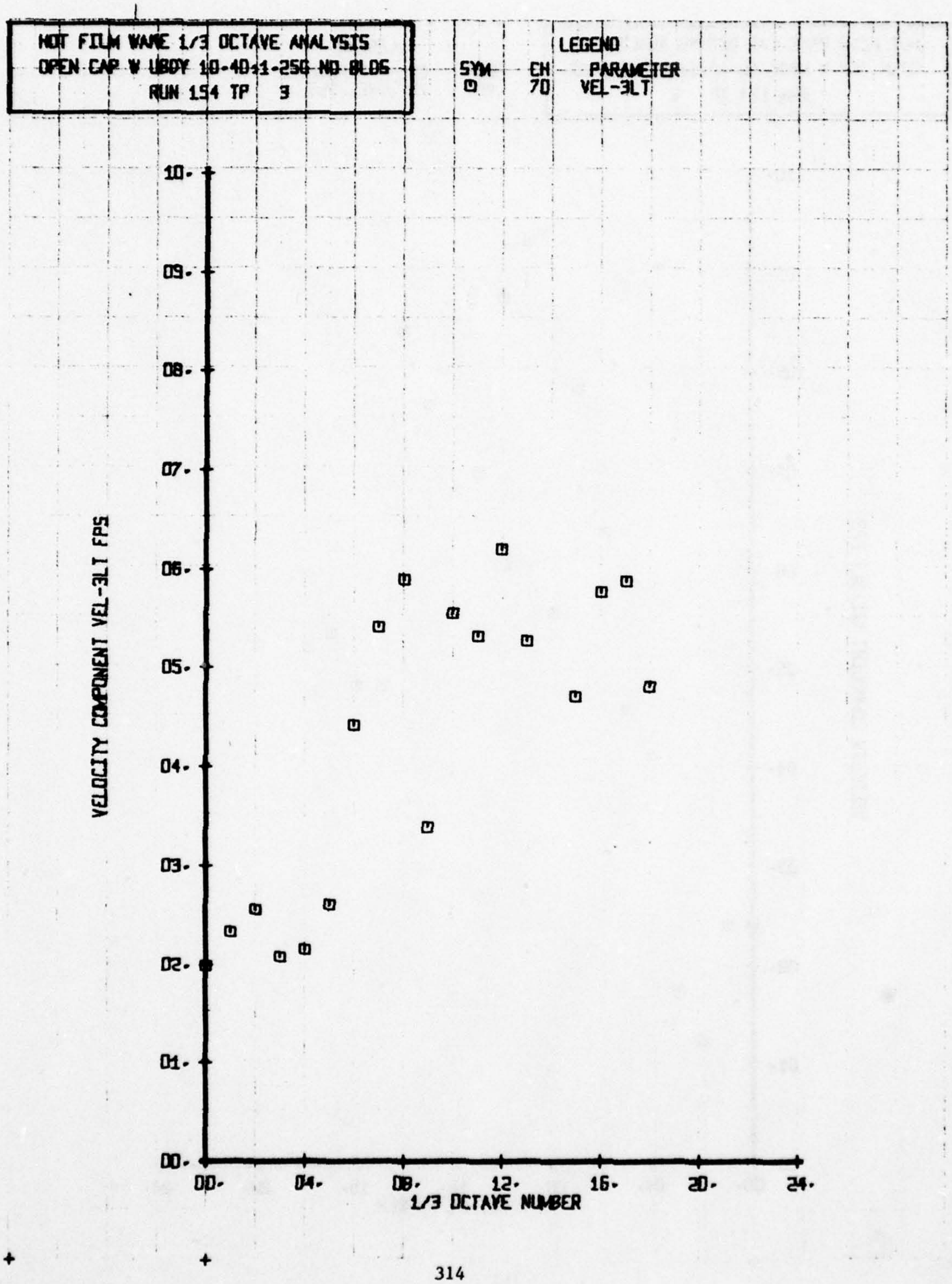
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBOY 10-40:1-250 NO BLDG
RUN 154 TP 3
LEGEND
SYM CH PARAMETER
70 VEL-3LT
VELOCITY COMPONENT VEL-3LT FPS
1/3 OCTAVE NUMBER
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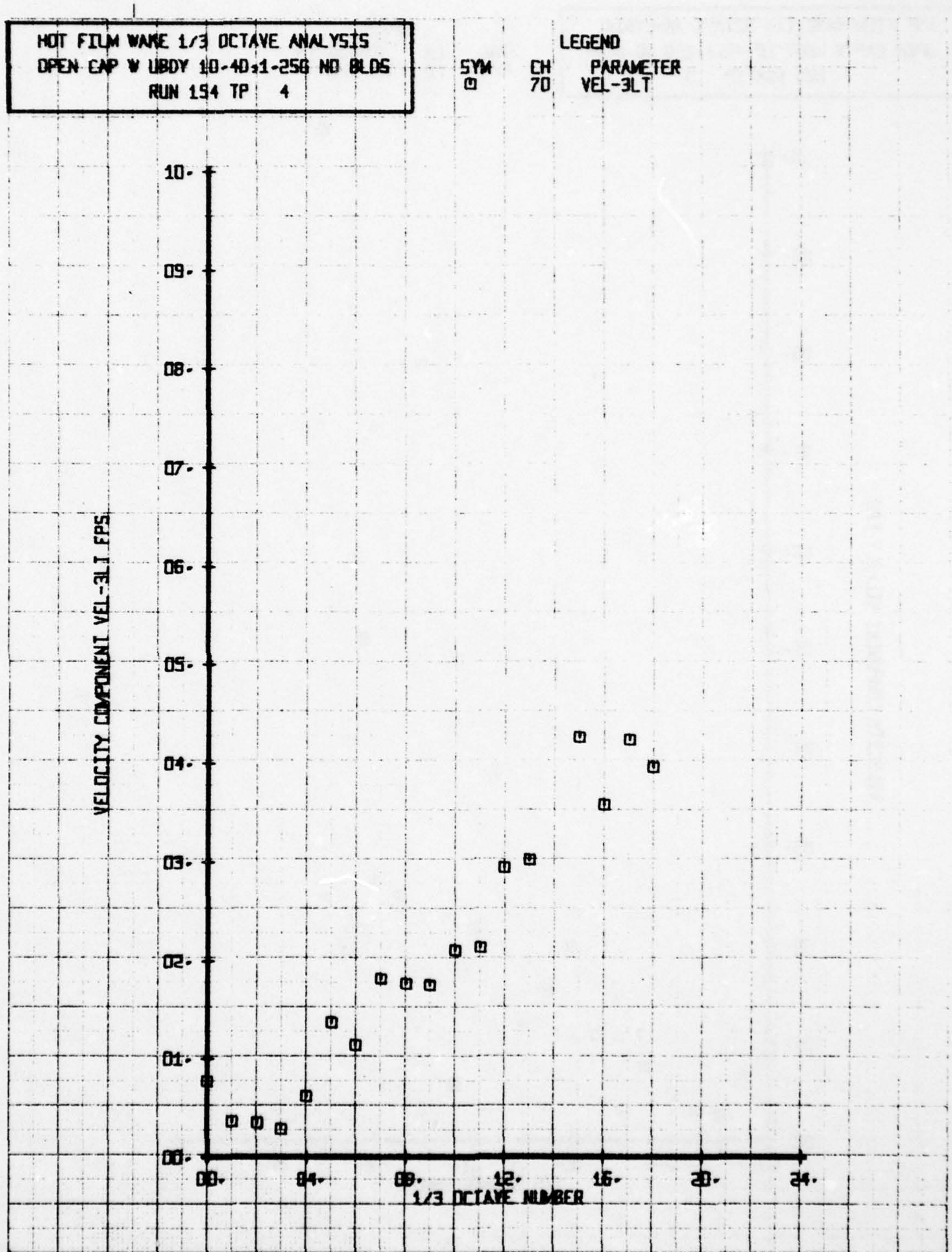
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBDY 10-40:1-25G NO BLDS
RUN 154 TP 4
LEGEND
SYM CH PARAMETER
70 VEL-3LT
VELOCITY COMPONENT VEL-3LT FPS
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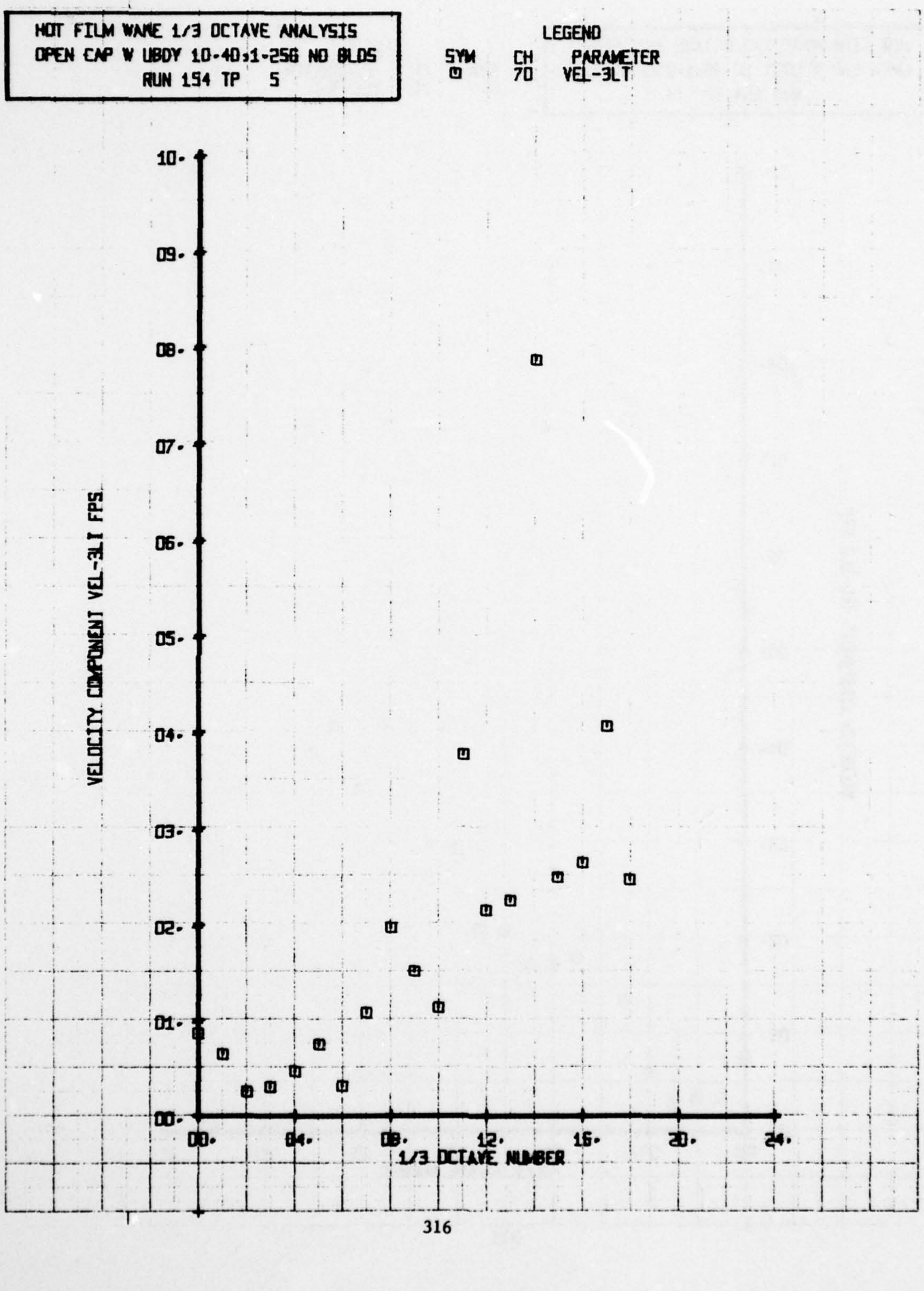
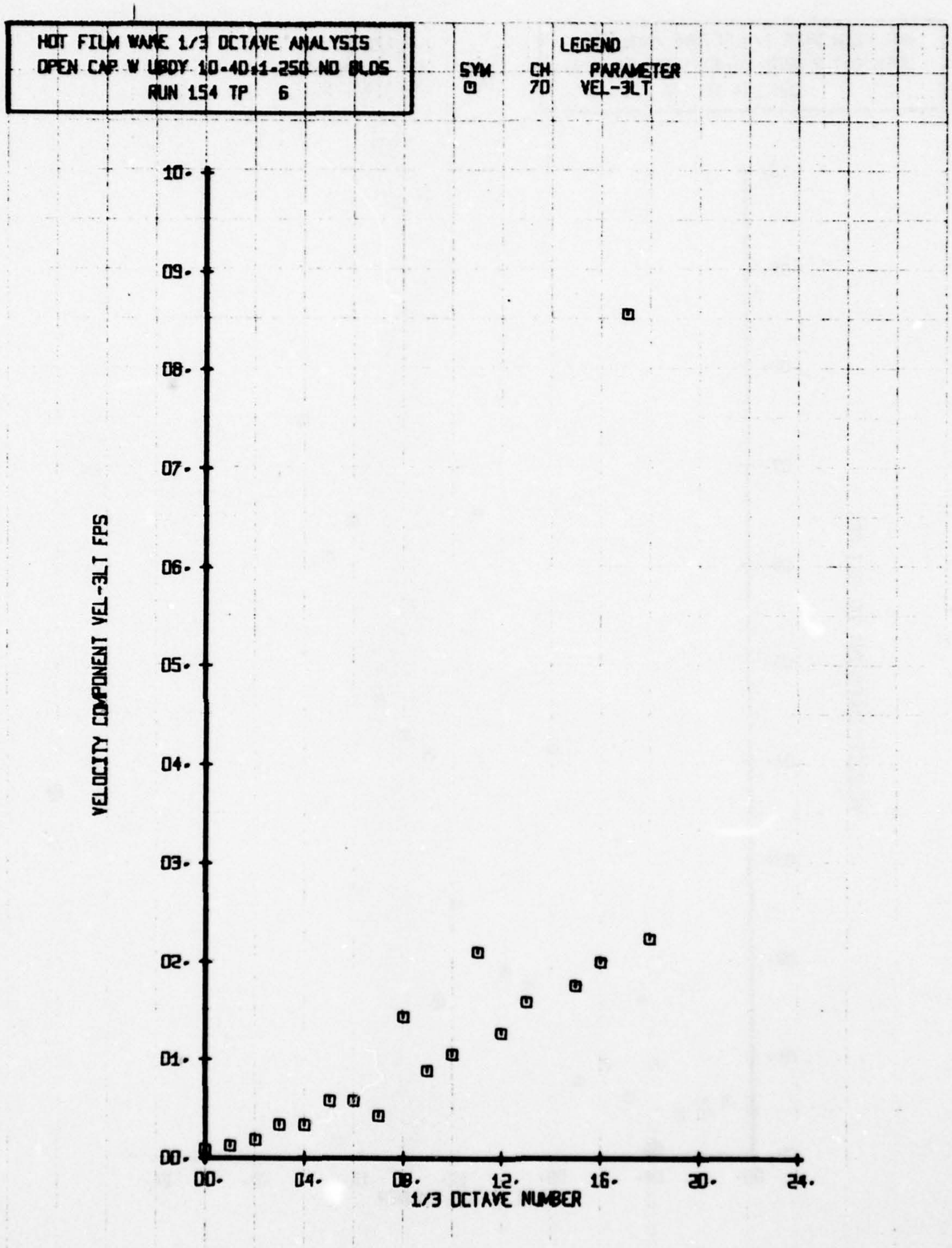
1/3 OCTAVE NUMBER

HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBDY 10-40:1-256 NO BLDS
RUN 154 TP 5




HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBDY 10-40:1-250 NO BLDS
RUN 154 TP 6
LEGEND
SYM CH PARAMETER
70 VEL-3LT
VELOCITY COMPONENT VEL-3LT FPS
1/3 OCTAVE NUMBER
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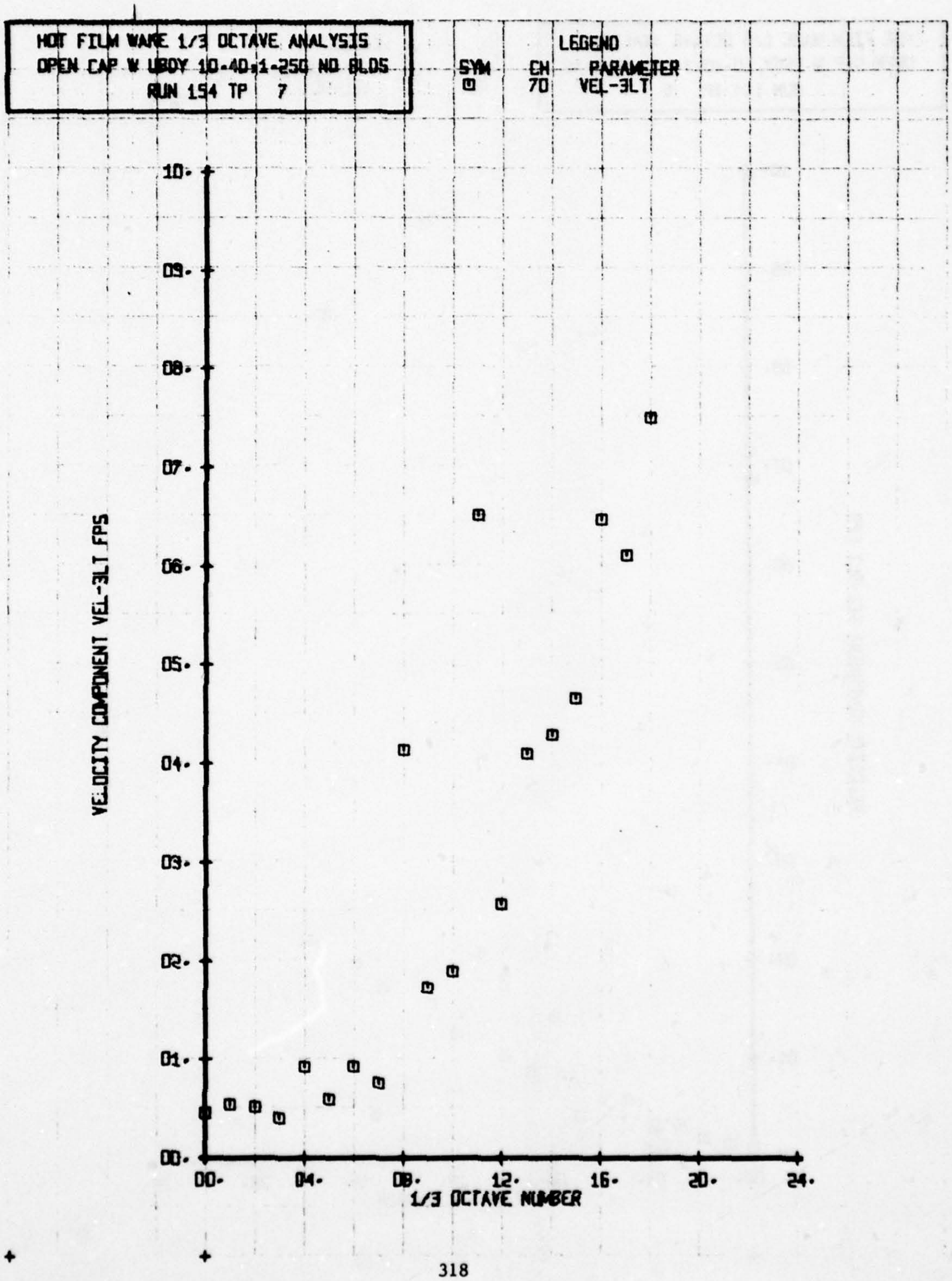
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBOY 10-40-1-250 NO BLDS
RUN 154 TP 7
LEGEND
SYM CH PARAMETER
70 VEL-3LT
VELOCITY COMPONENT VEL-3LT FPS
1/3 OCTAVE NUMBER
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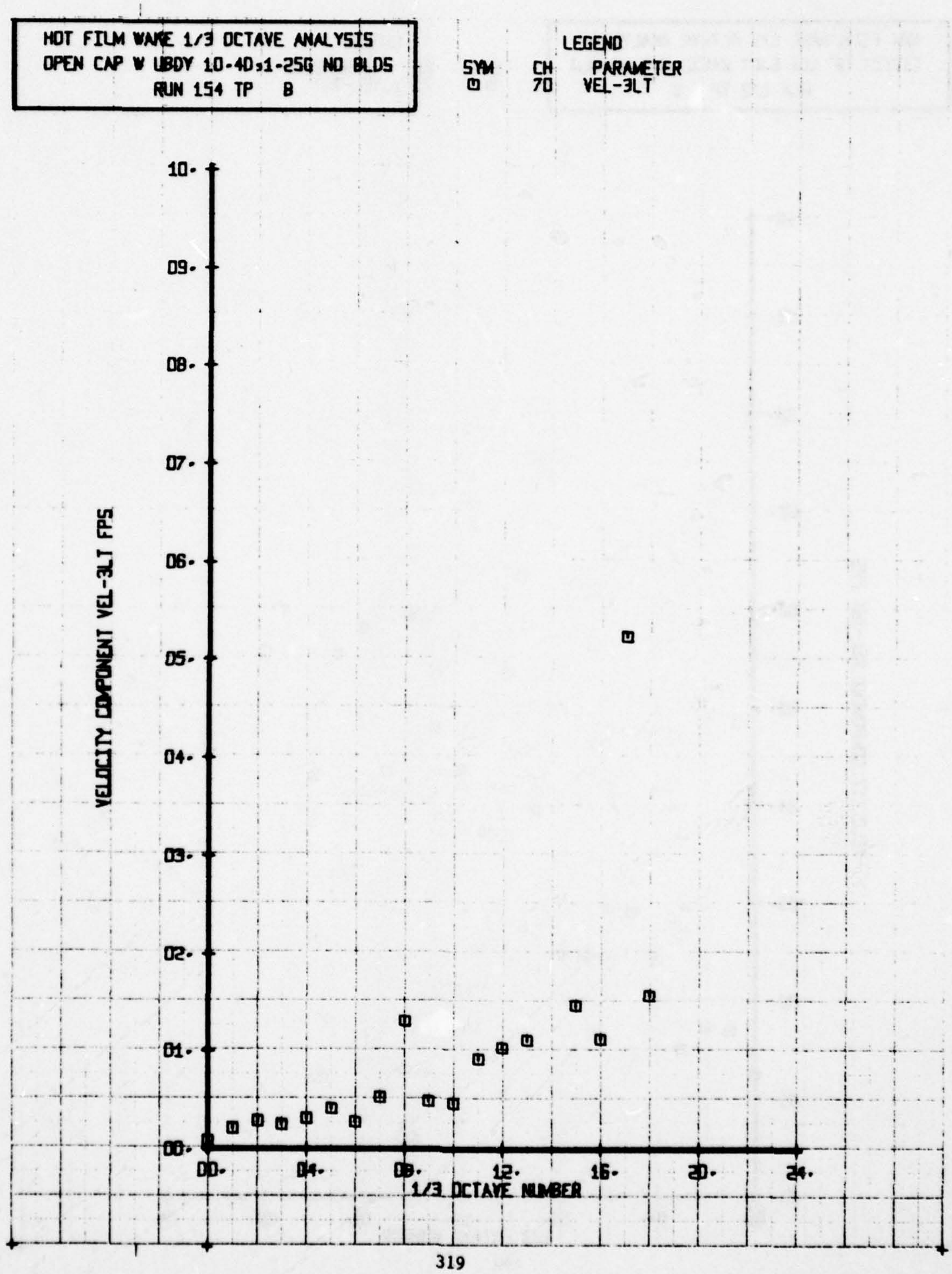
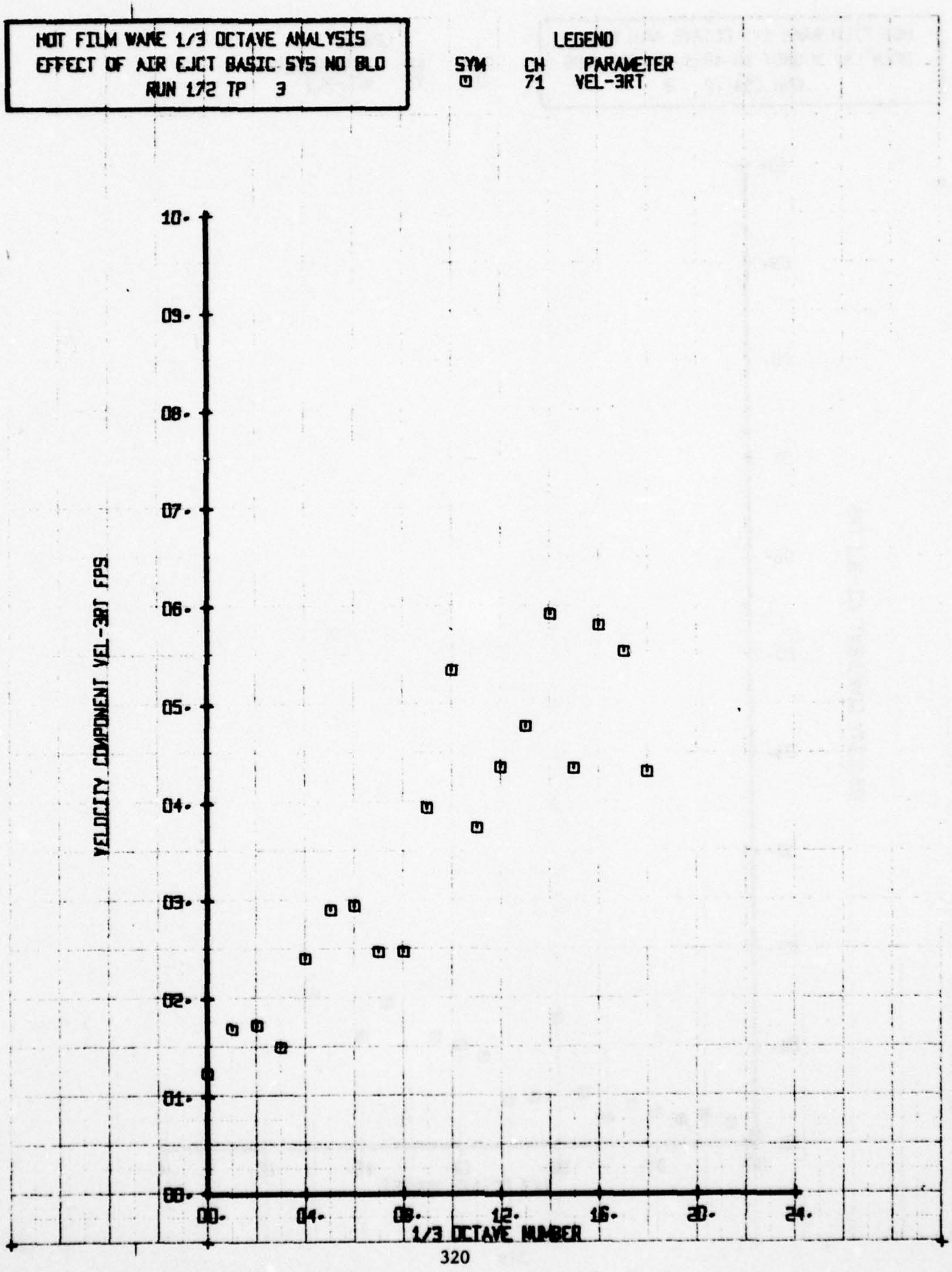

HOT FILM WAKE 1/3 OCTAVE ANALYSIS
OPEN CAP W UBDY 10-40,1-25G NO BLDS
RUN 154 TP B
LEGEND
SYM CH PARAMETER
70 VEL-3LT
VELOCITY COMPONENT VEL-3LT FPS
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
EFFECT OF AIR EJCT BASIC SYS NO BLO
RUN 172 TP 3
LEGEND
SYM CH PARAMETER
71 VEL-3RT
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VELOCITY COMPONENT VEL-3RT FPS
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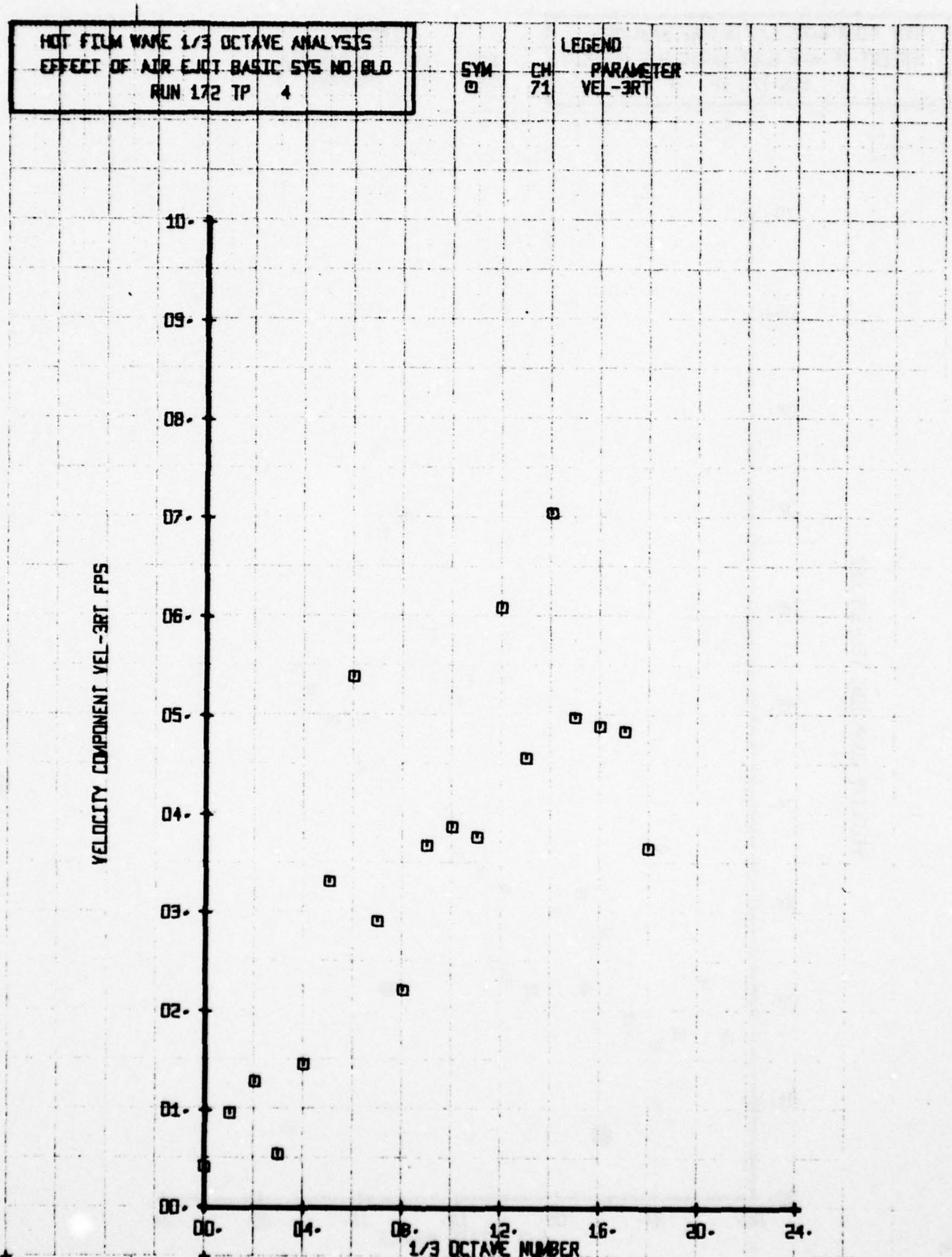
1/3 OCTAVE NUMBER



HOT FILM WAKE 1/3 OCTAVE ANALYSIS
EFFECT OF AIR EJCT BASIC SYS NO BLO
RUN 172 TP 4
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
1/3 OCTAVE NUMBER
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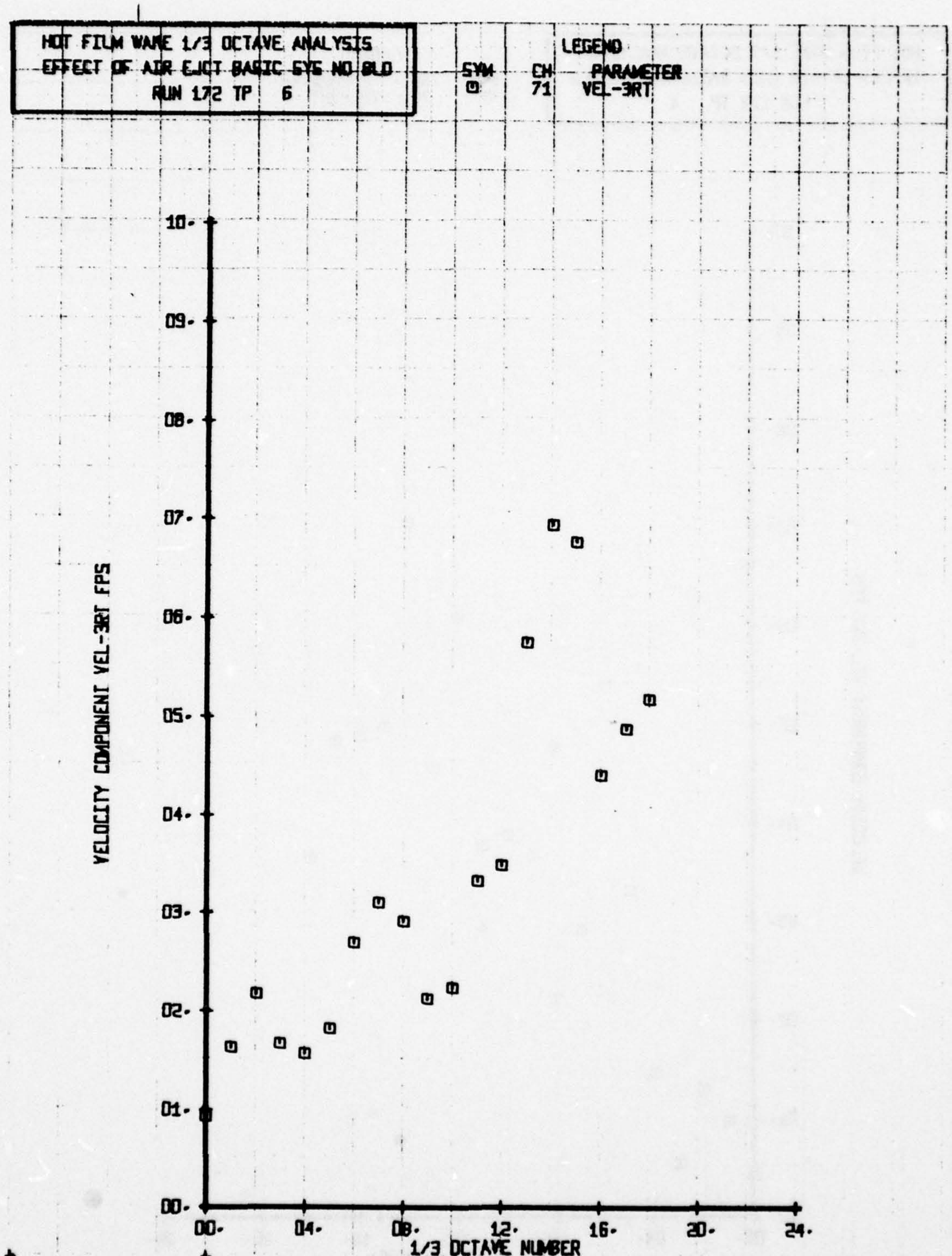
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
EFFECT OF AIR EJCT BASIC SYS NO BLD
RUN 172 TP 6
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
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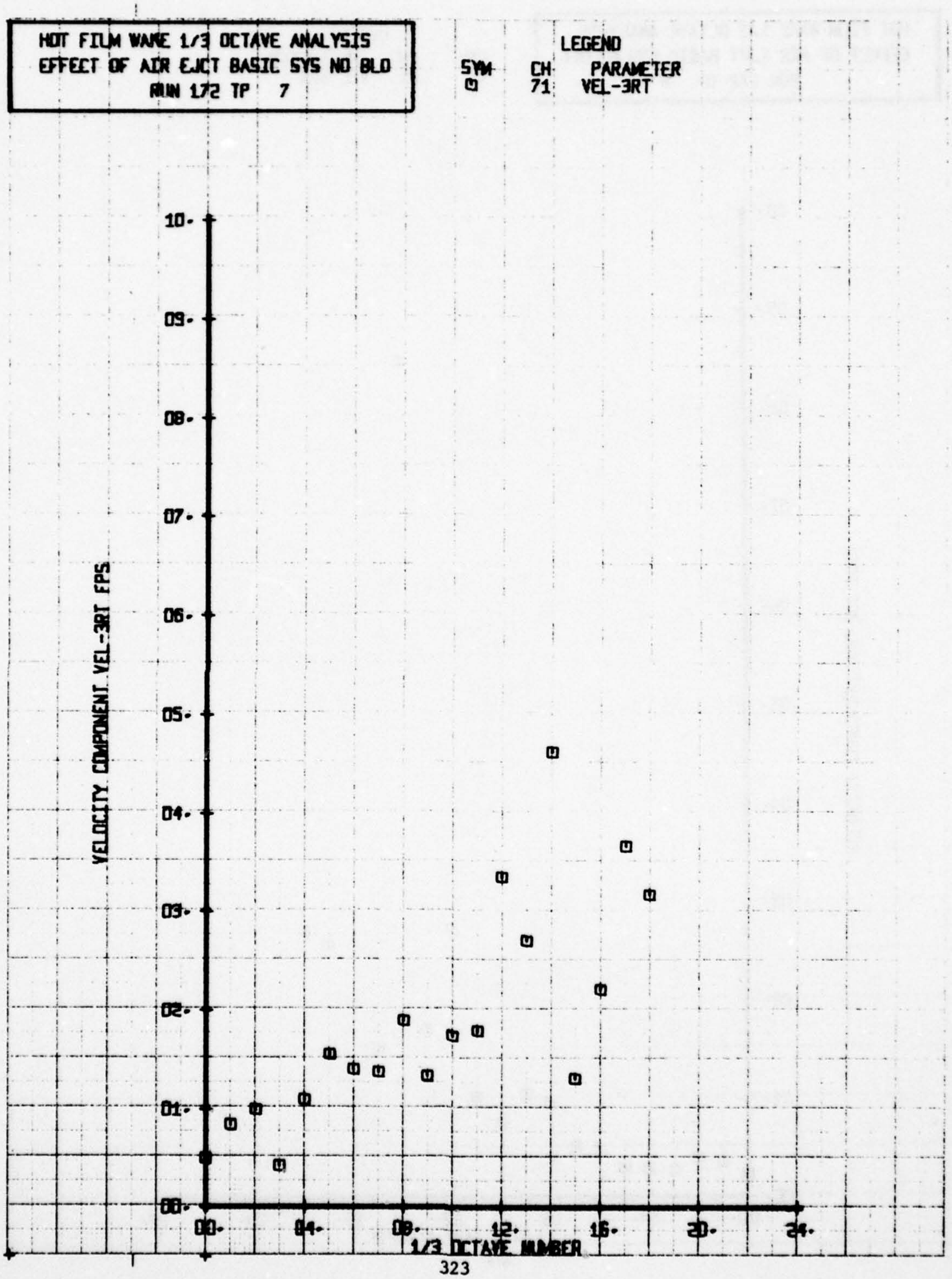
1/3 OCTAVE NUMBER



HOT FILM WAKE 1/3 OCTAVE ANALYSIS
EFFECT OF AIR EJCT BASIC SYS NO BLO
RUN 172 TP 7
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
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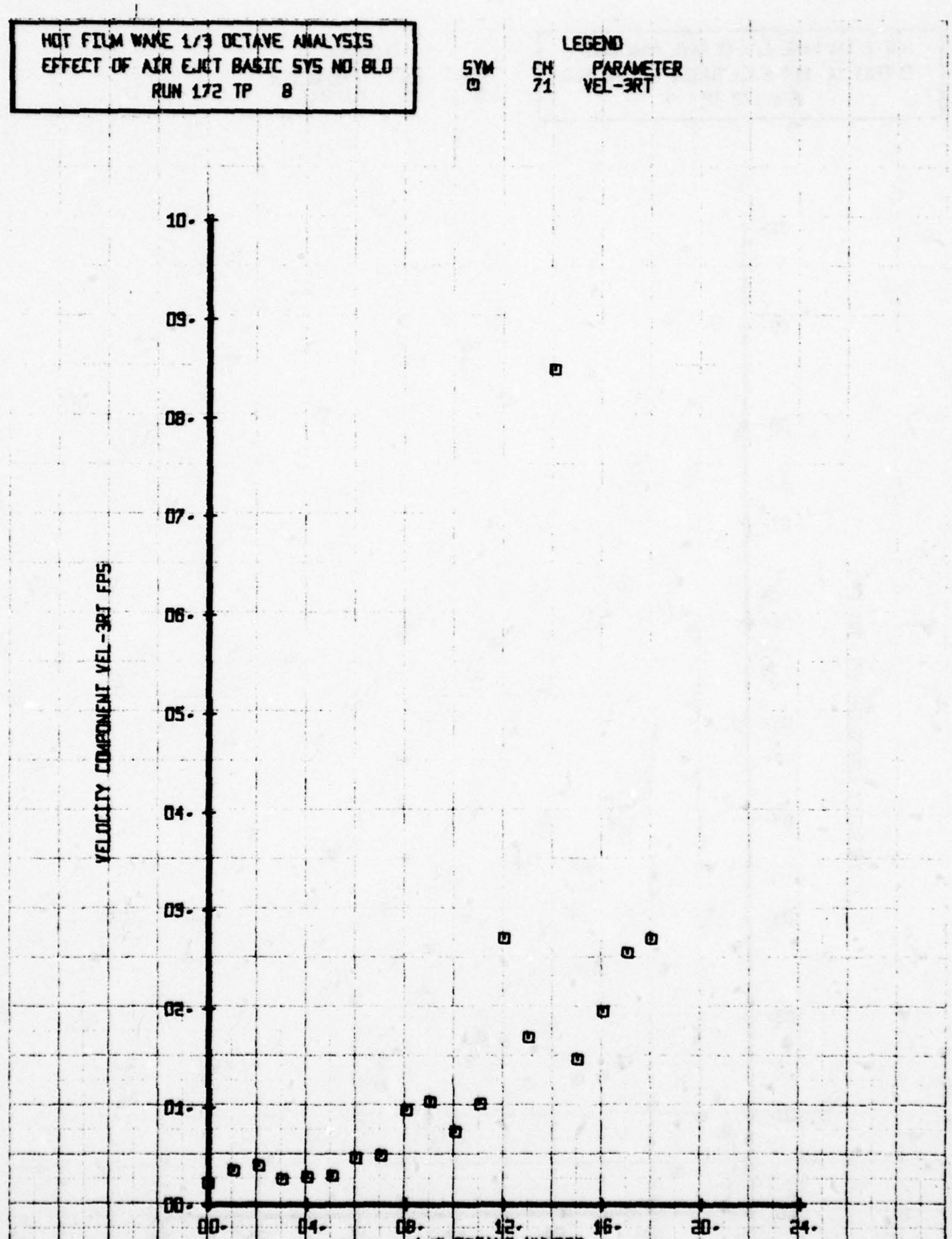
1/3 OCTAVE NUMBER



HOT FILM WAKE 1/3 OCTAVE ANALYSIS
EFFECT OF AIR EJCT BASIC SYS NO BLO
RUN 172 TP 8
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
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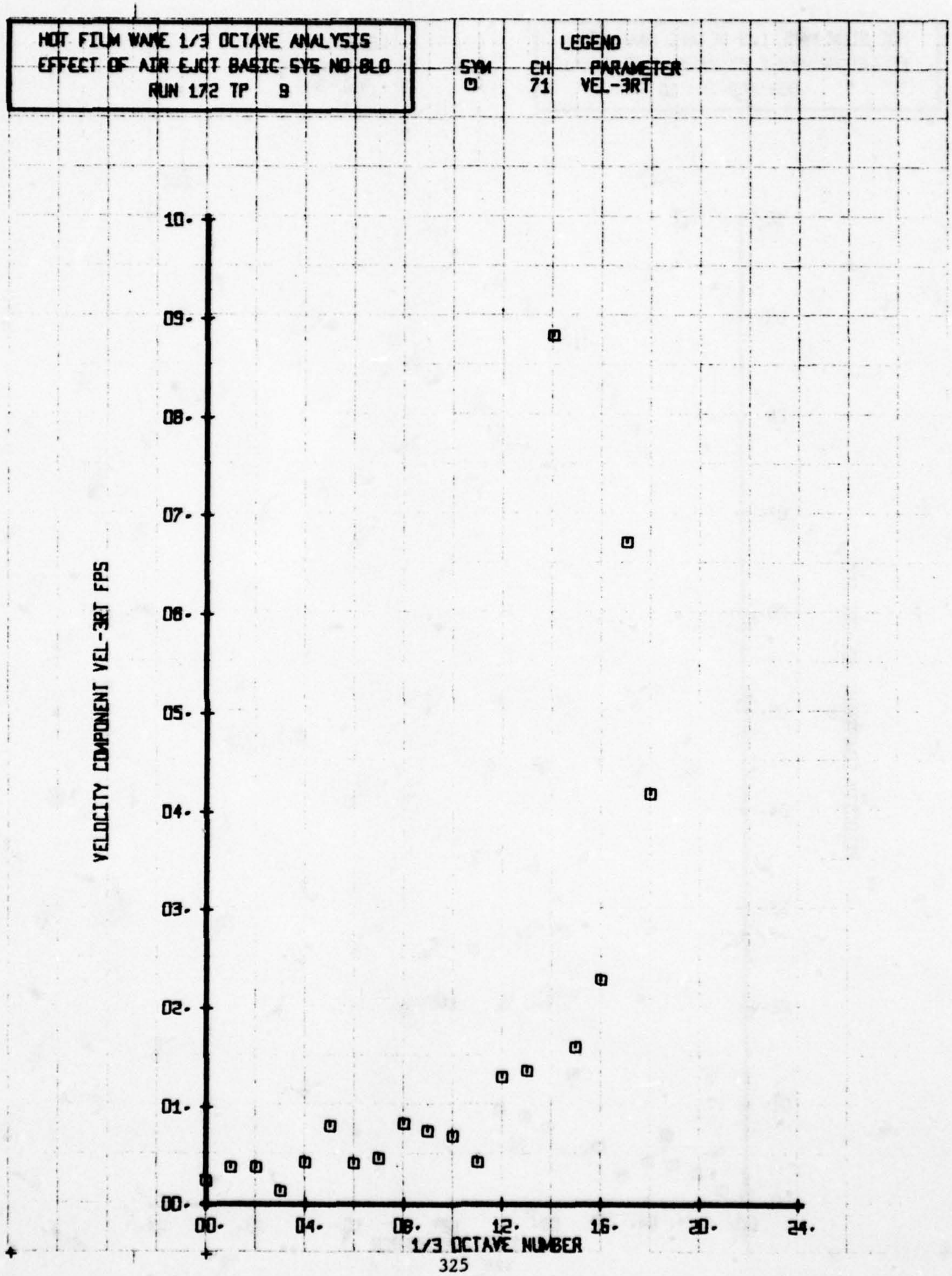
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
EFFECT OF AIR EJCT BASIC SYS NO BLO
RUN 172 TP 9
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
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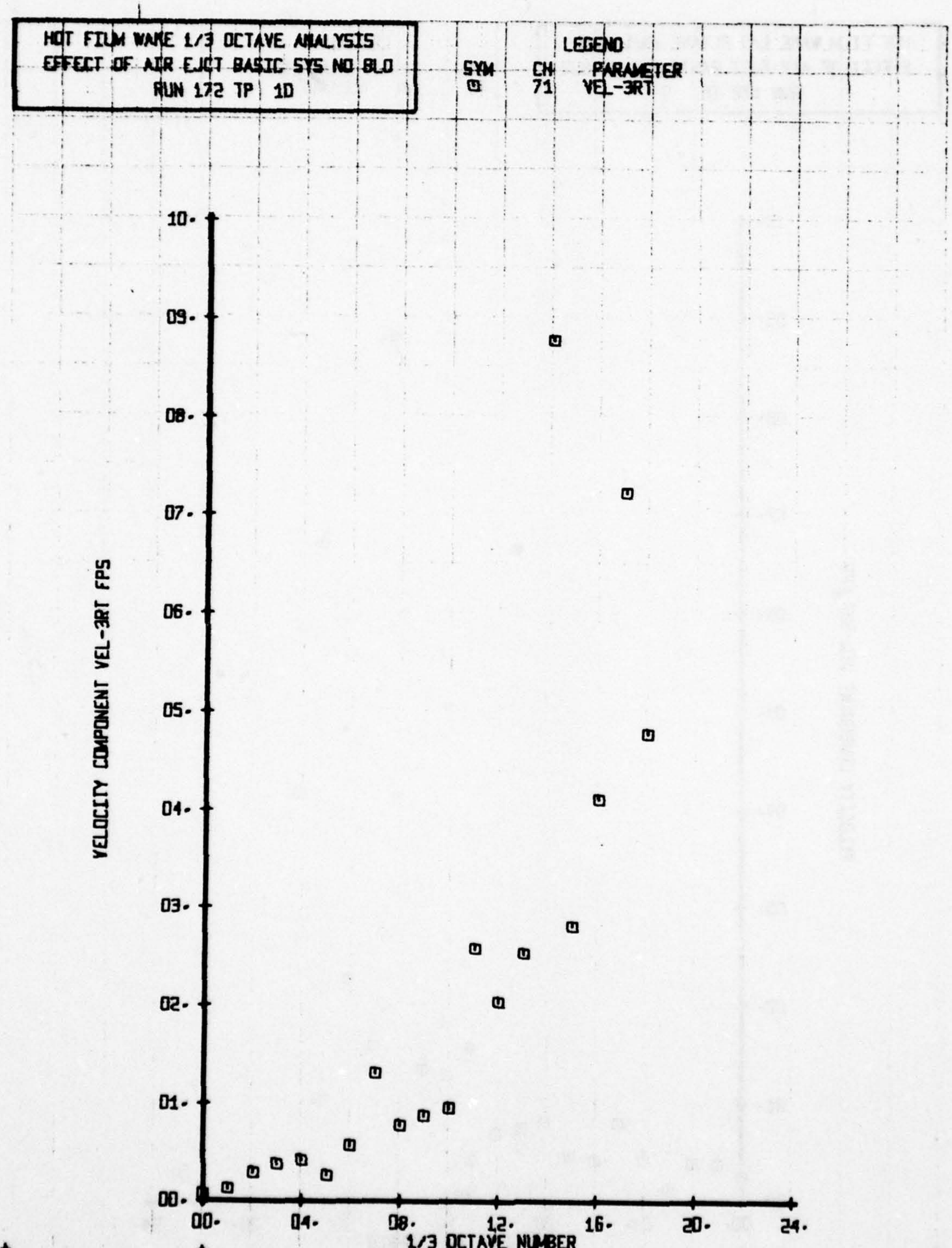

HOT FILM WAKE 1/3 OCTAVE ANALYSIS
EFFECT OF AIR EJCT BASIC SYS NO BLO
RUN 172 TP 1D
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
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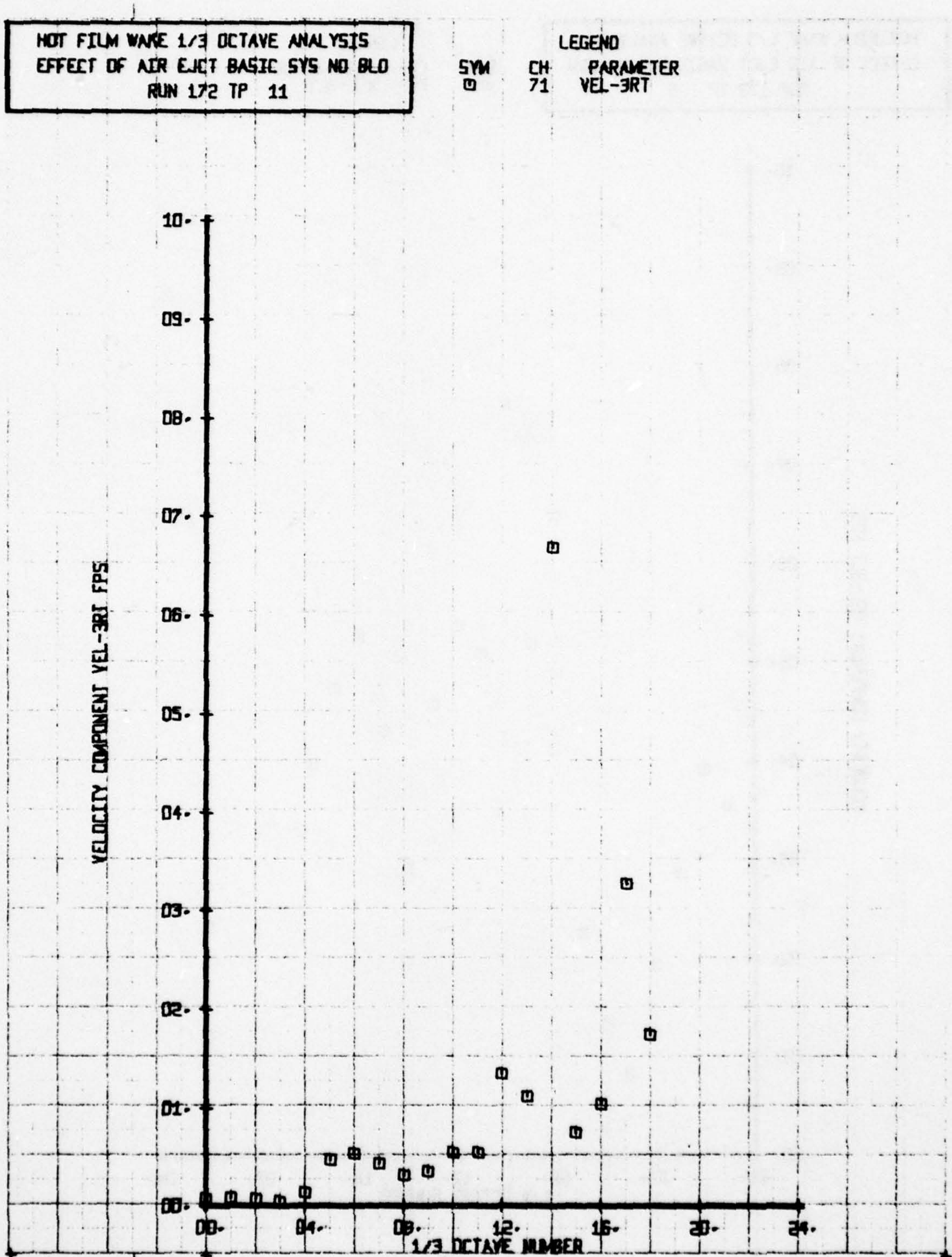
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
EFFECT OF AIR EJCT BASIC SYS NO BLO
RUN 172 TP 11
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
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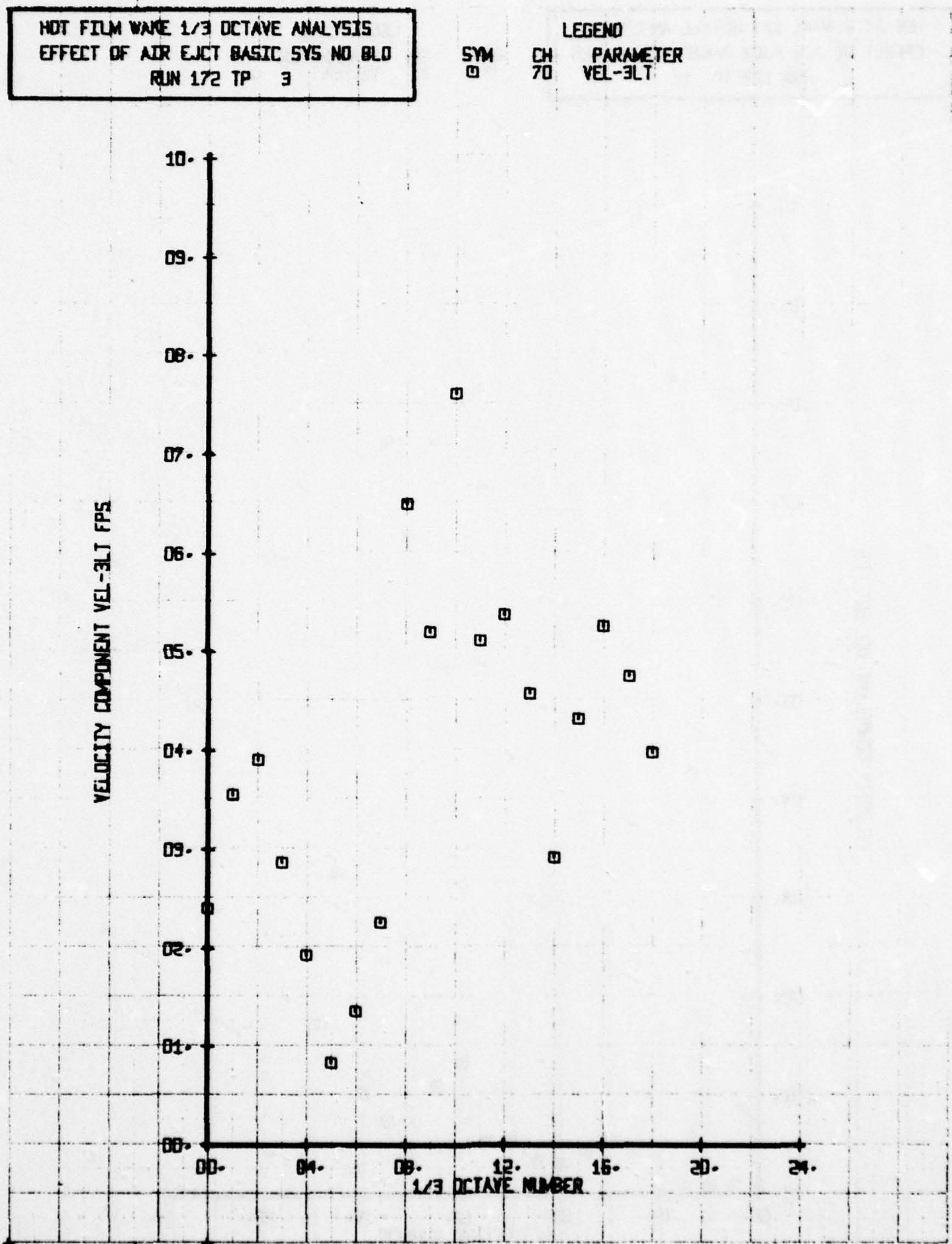
1/3 OCTAVE NUMBER



HOT FILM WAKE 1/3 OCTAVE ANALYSIS
EFFECT OF AIR EJCT BASIC SYS NO BLO
RUN 172 TP 3
LEGEND
SYM CH PARAMETER
70 VEL-3LT
VELOCITY COMPONENT VEL-3LT FPS
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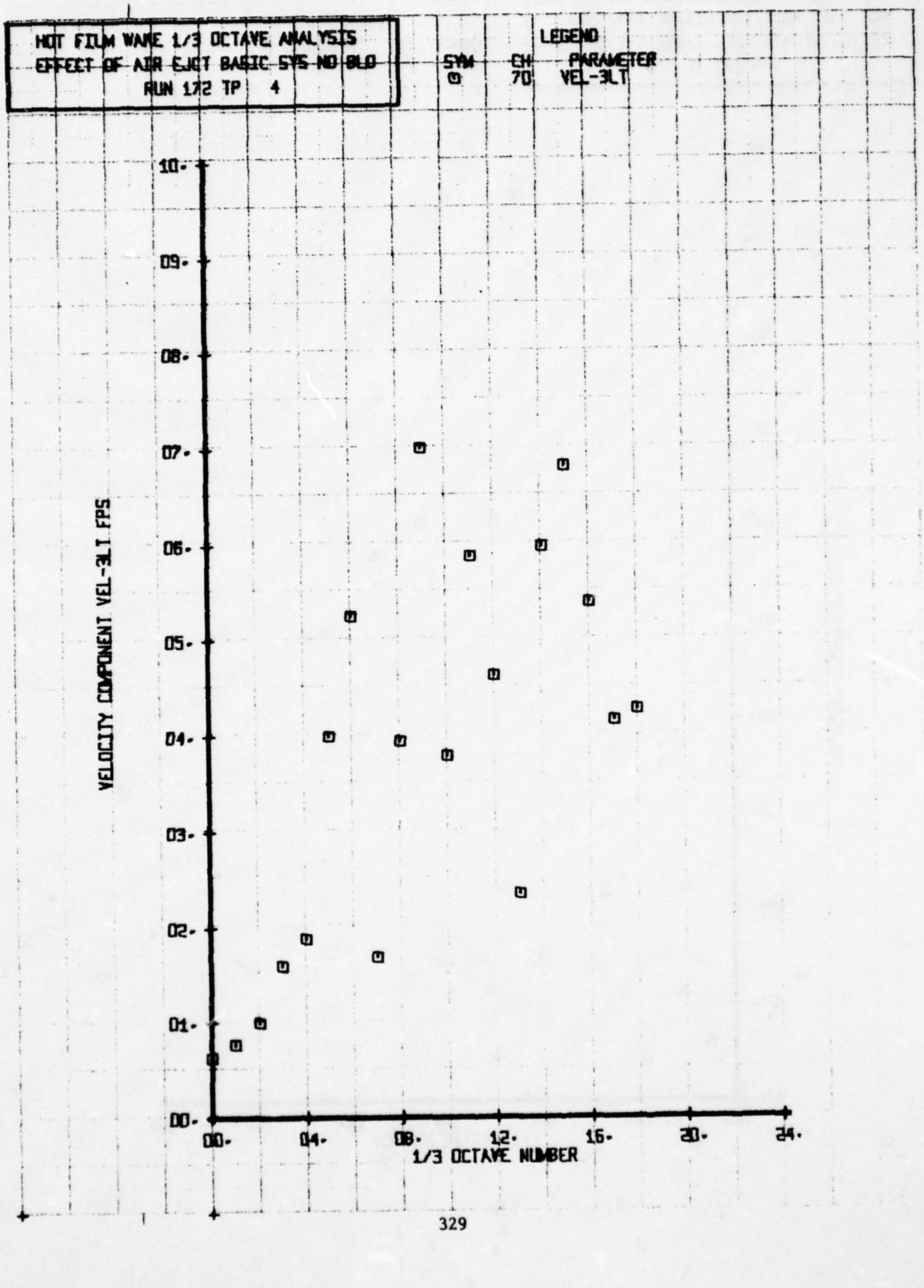
1/3 OCTAVE NUMBER



HOT FILM WAKE 1/3 OCTAVE ANALYSIS
EFFECT OF AIR EJCT BASIC SYS NO BLO
RUN 172 TP 4
LEGEND
SYM CH PARAMETER
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VELOCITY COMPONENT VEL-3LT FPS
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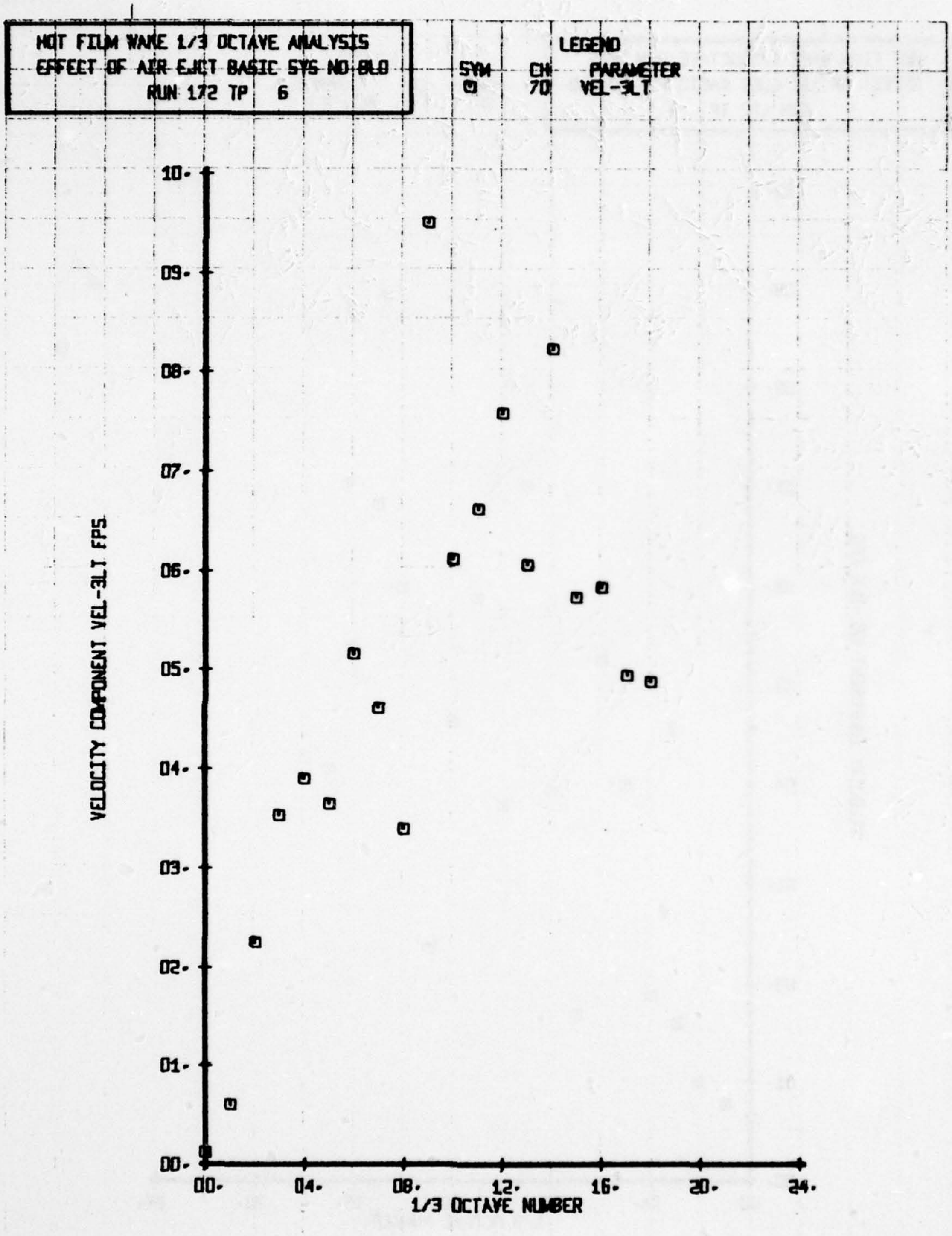
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
EFFECT OF AIR EJCT BASIC SYS NO BLO
RUN 172 TP 6
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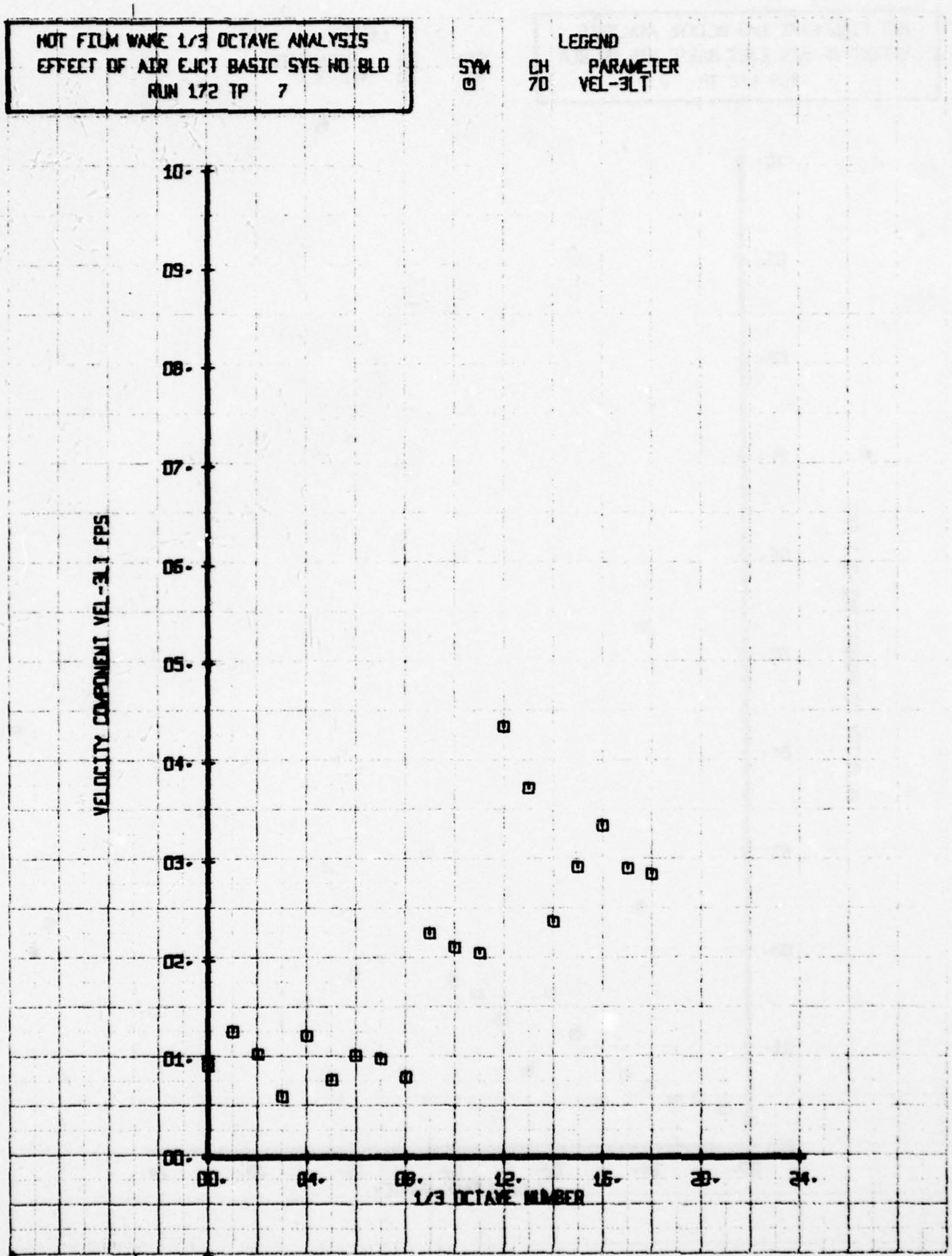
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
EFFECT OF AIR EJCT BASIC SYS NO BLD
RUN 172 TP 7
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VELOCITY COMPONENT VEL-3LT FPS
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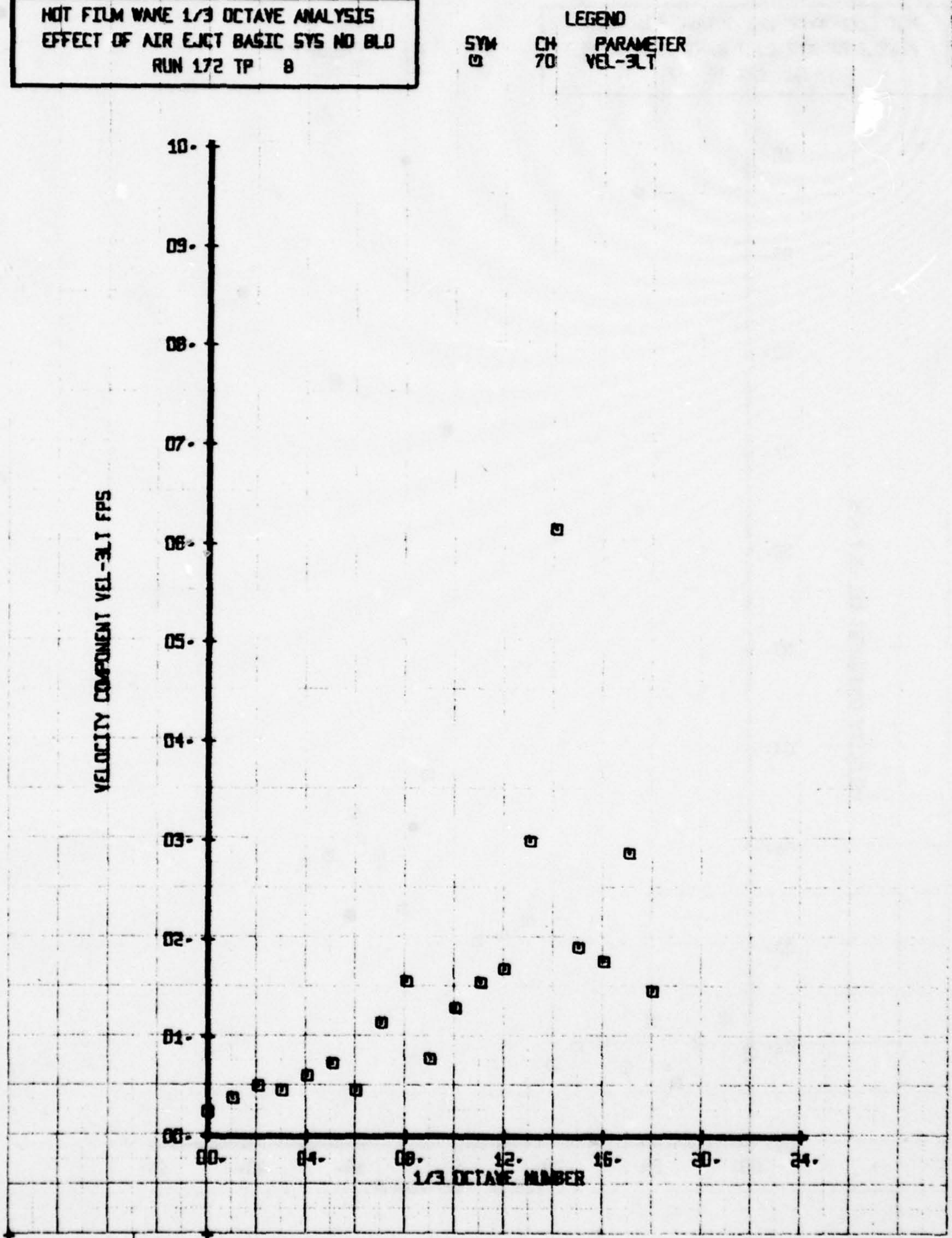
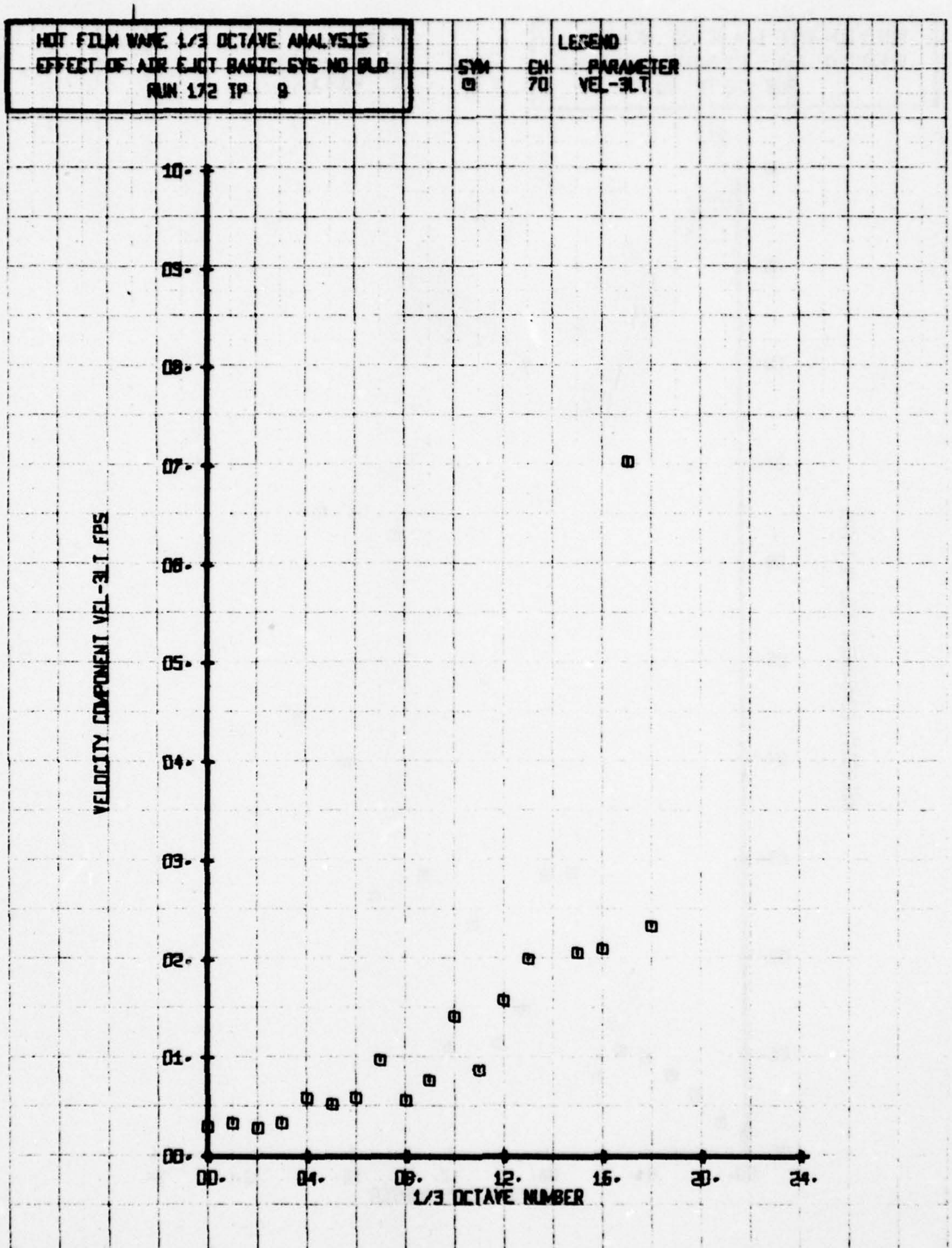
EFFECT OF AIR EJCT BASIC SYS NO BLD
RUN 172 TP 8




HOT FILM WAKE 1/3 OCTAVE ANALYSIS
EFFECT OF AIR EJCT BASIC SYS NO BLD
RUN 172 TP 9
LEGEND
SYM CH PARAMETER
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VELOCITY COMPONENT VEL-3LT FPS
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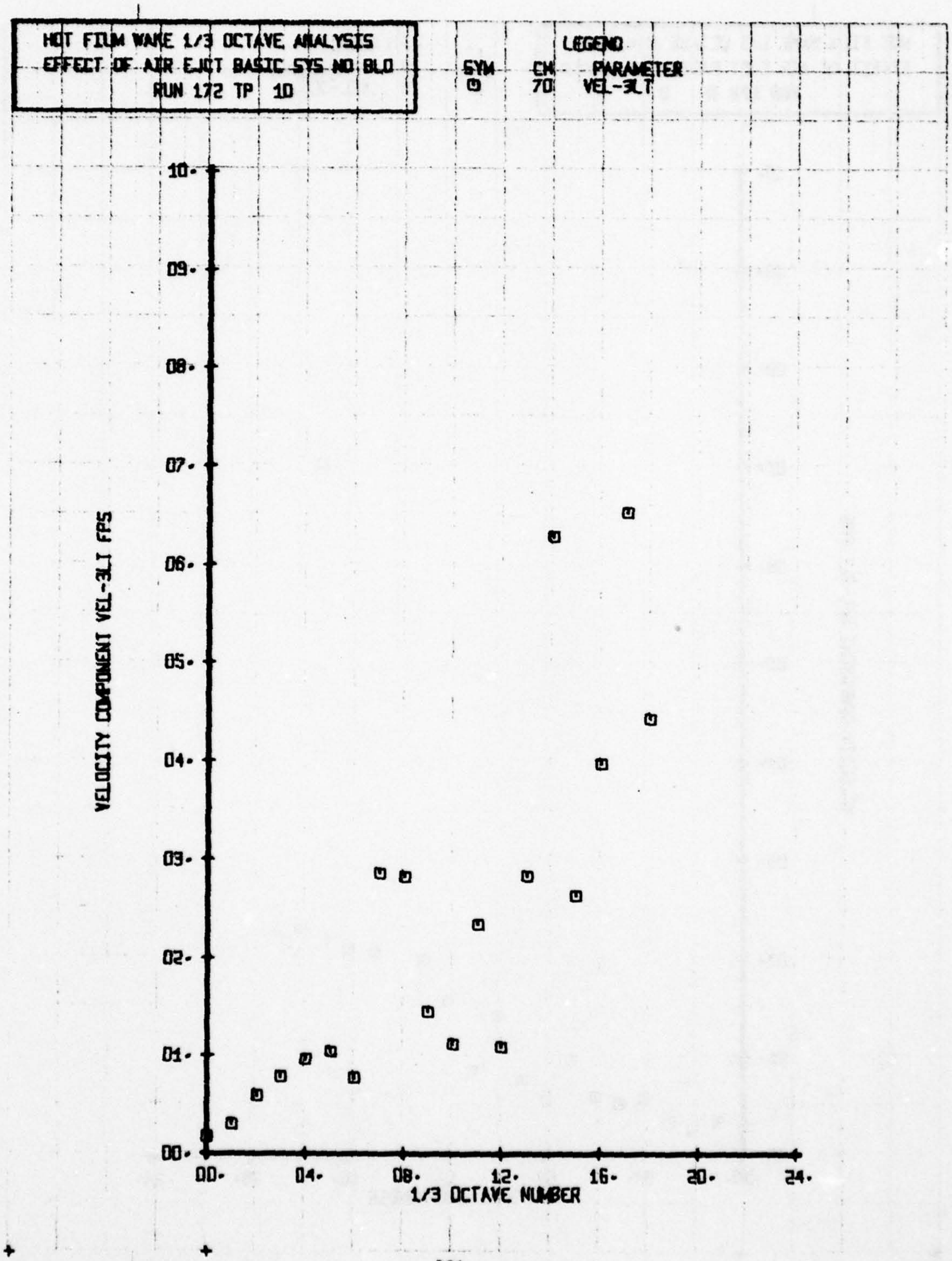
1/3 OCTAVE NUMBER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EFFECT OF AIR EJCT BASIC SYS NO BLO
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LEGEND
SYM CH PARAMETER
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VELOCITY COMPONENT VEL-3LT FPS
1/3 OCTAVE NUMBER
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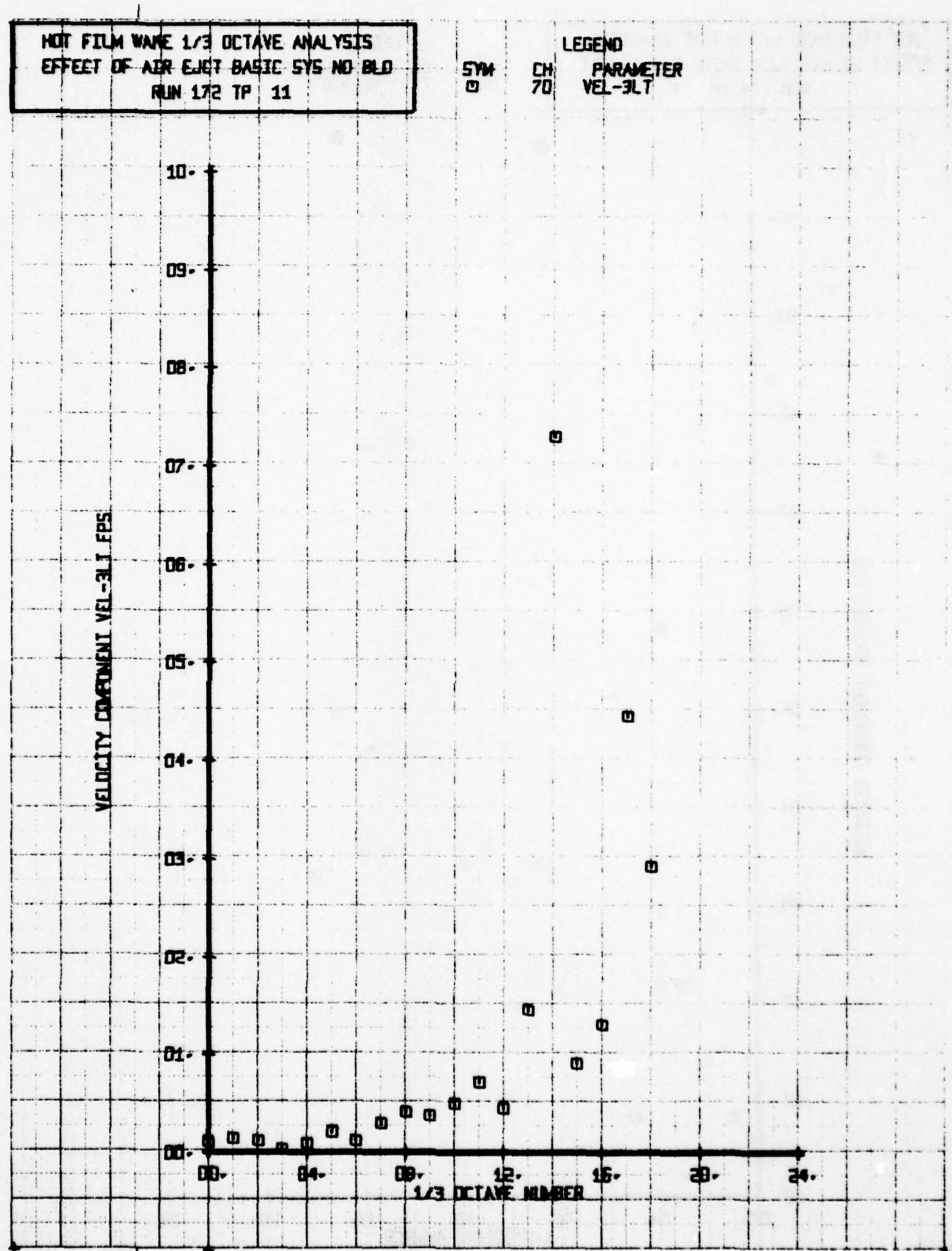
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
EFFECT OF AIR EJCT BASIC SYS NO BLD
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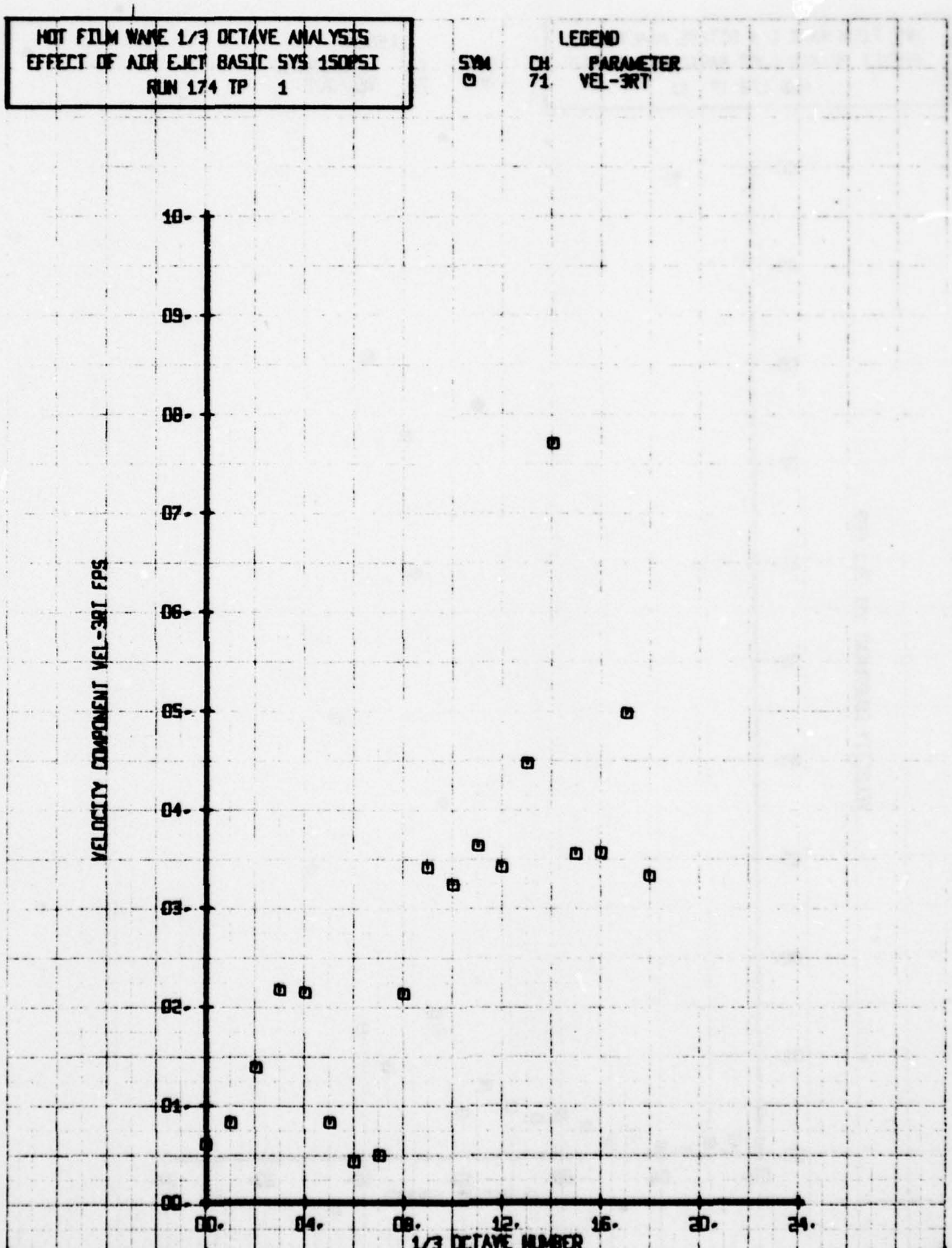
1/3 OCTAVE NUMBER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EFFECT OF AIR EJCT BASIC SYS 150PSI
RUN 174 TP 1
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
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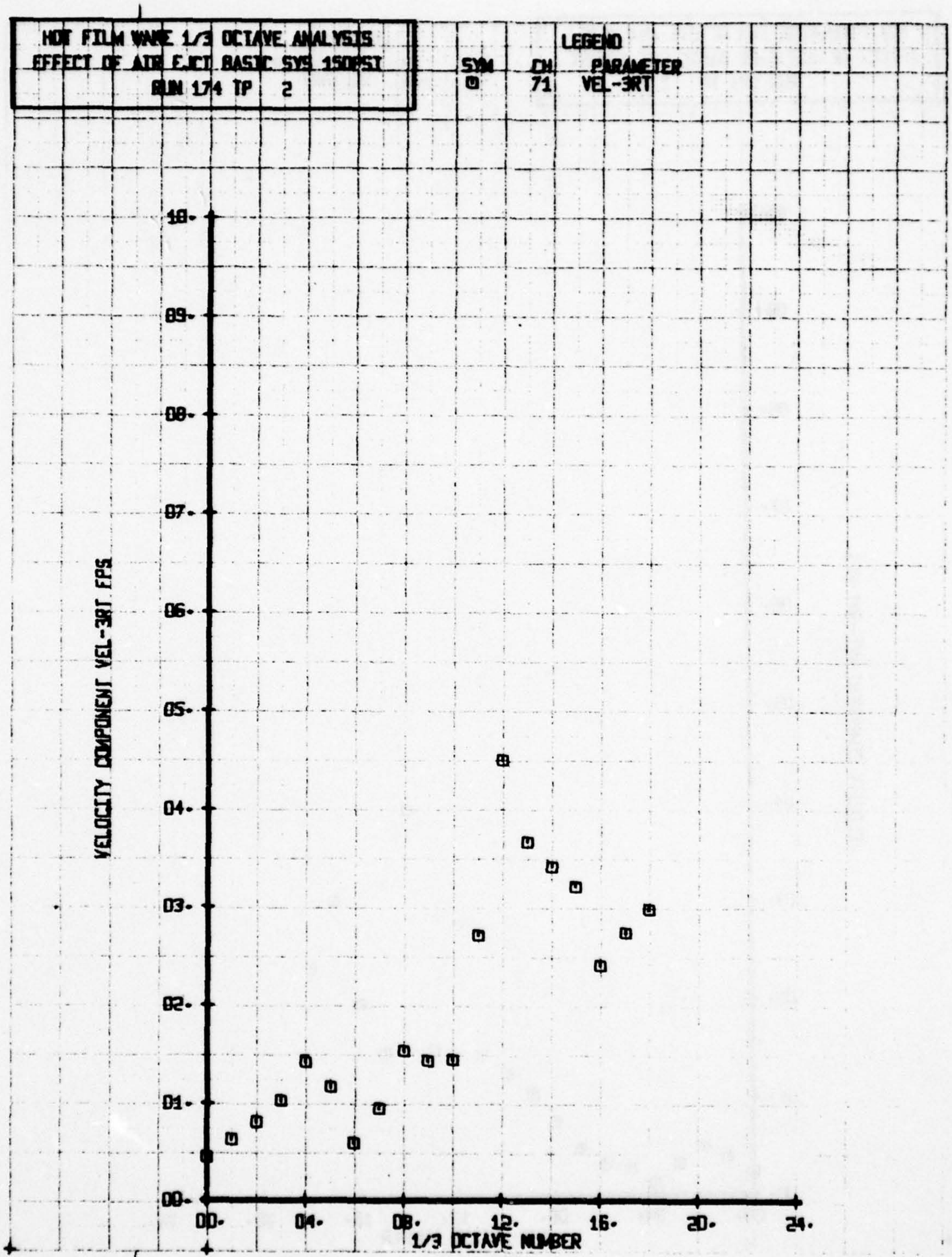
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
EFFECT OF AIR EJCT BASIC SYS 150PSI
RUN 174 TP 2
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
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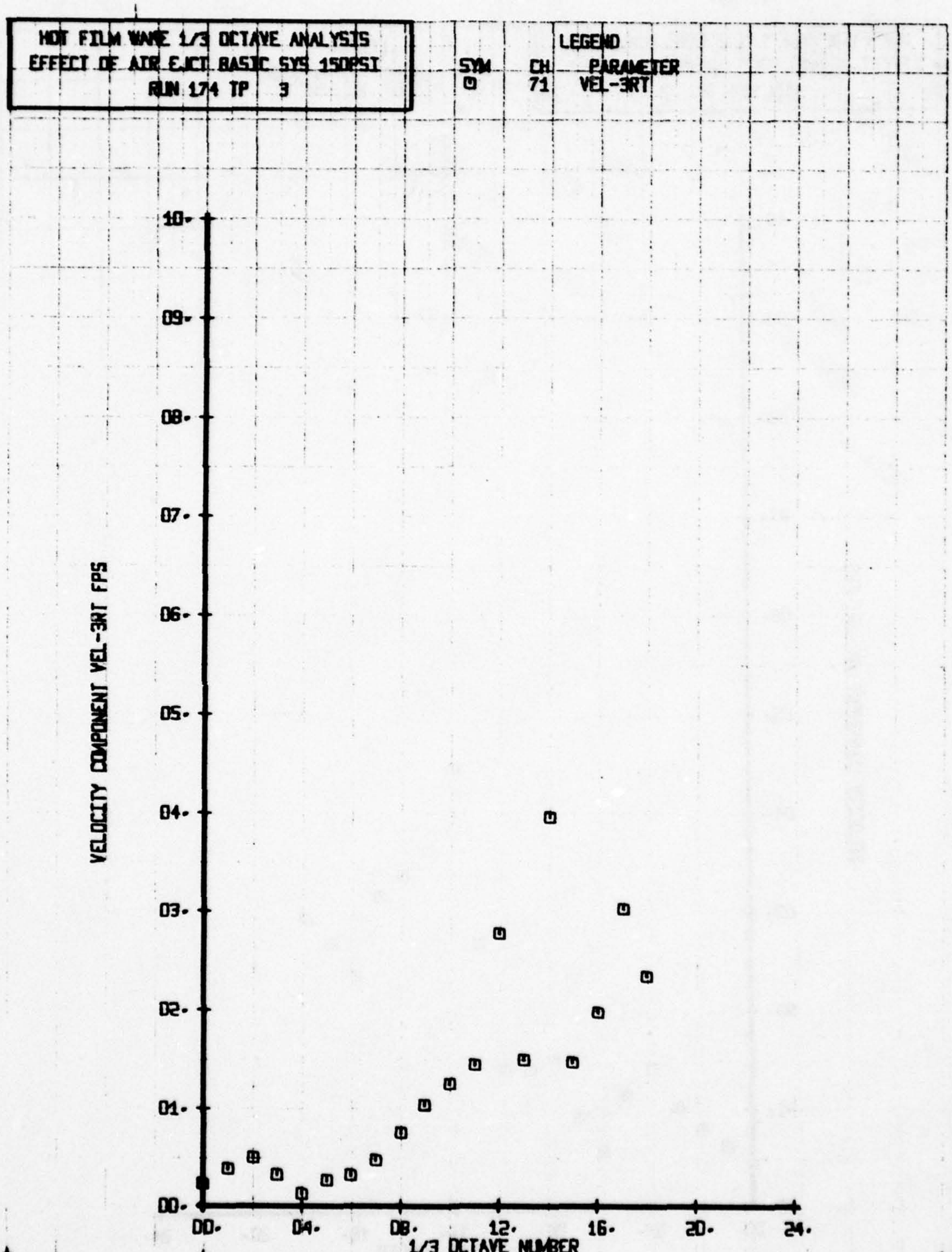
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
EFFECT OF AIR EJCT BASIC SYS 150PSI
RUN 174 TP 3
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
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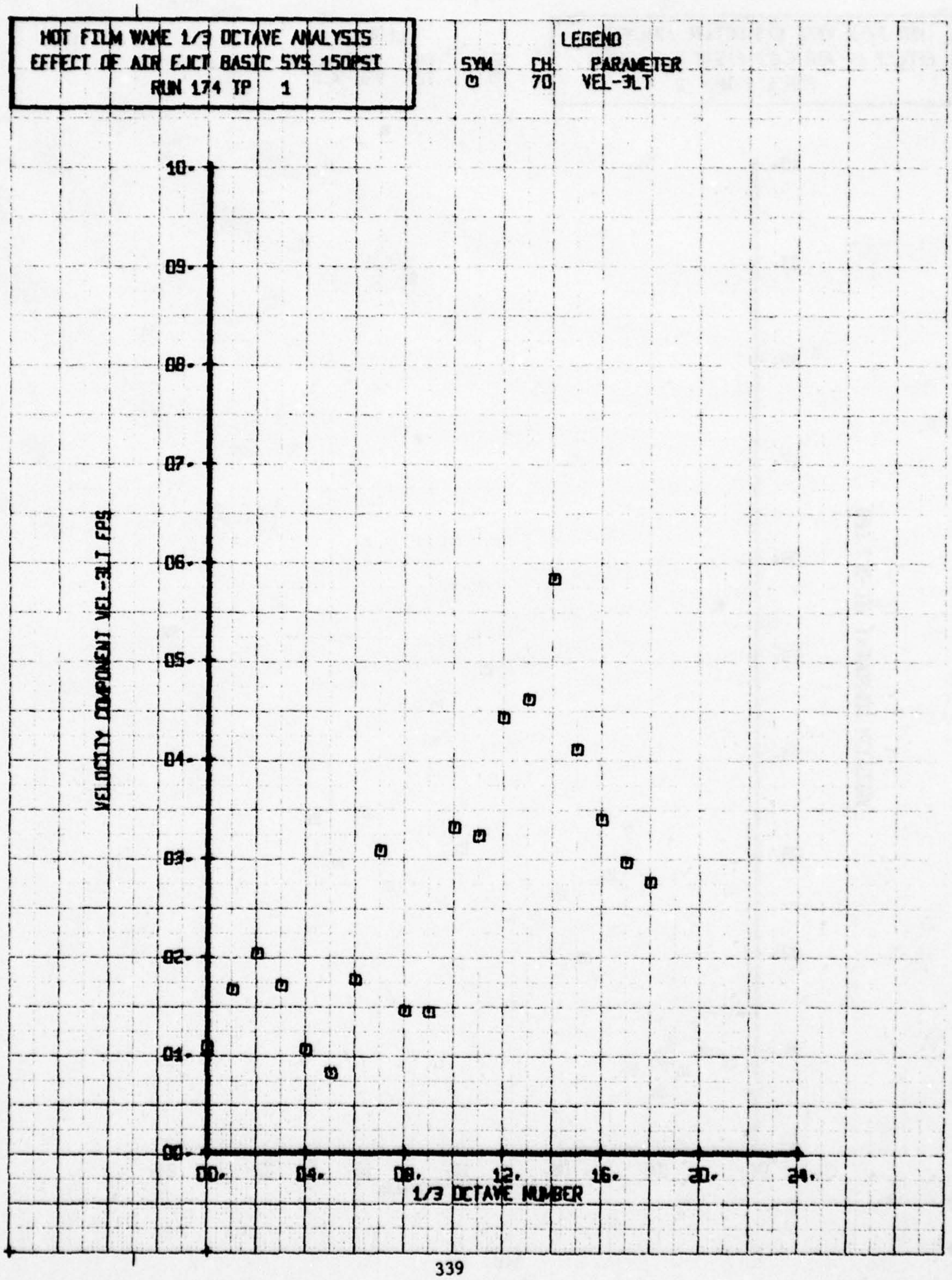
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
EFFECT OF AIR EJCT BASIC SYS 150PSI
RUN 174 TP 1
LEGEND
SYM CH. PARAMETER
70 VEL-3LT
VELOCITY COMPONENT VEL-3LT FPS
1/3 OCTAVE NUMBER
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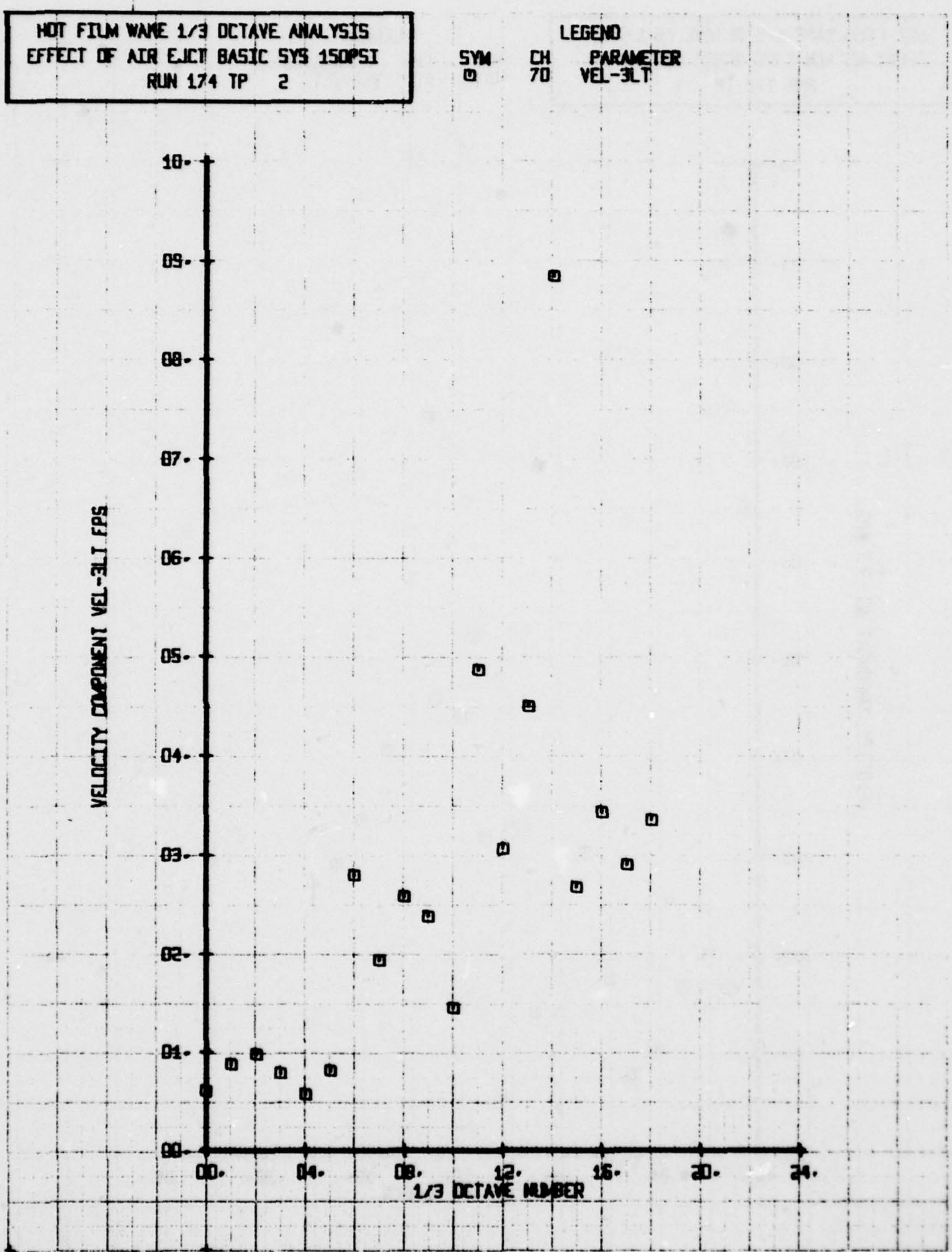
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
EFFECT OF AIR EJCT BASIC SYS 150PSI
RUN 174 TP 2
LEGEND
SYM CH PARAMETER
70 VEL-3LT
VELOCITY COMPONENT VEL-3LT FPS
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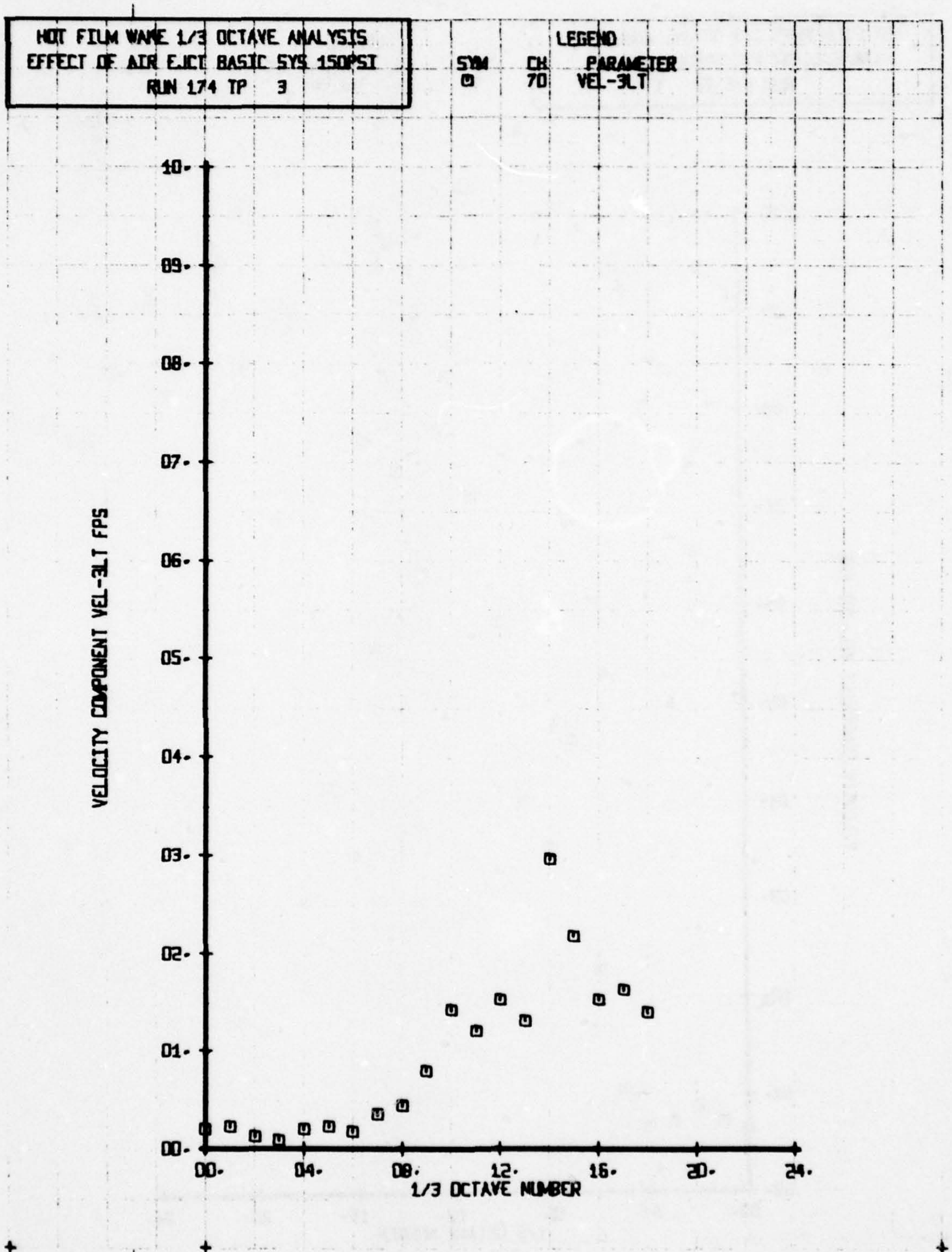
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EFFECT OF AIR EJCT BASIC SYS 150PSI
RUN 174 TP 3
LEGEND
SYM CH PARAMETER
70 VEL-3LT
VELOCITY COMPONENT VEL-3LT FPS
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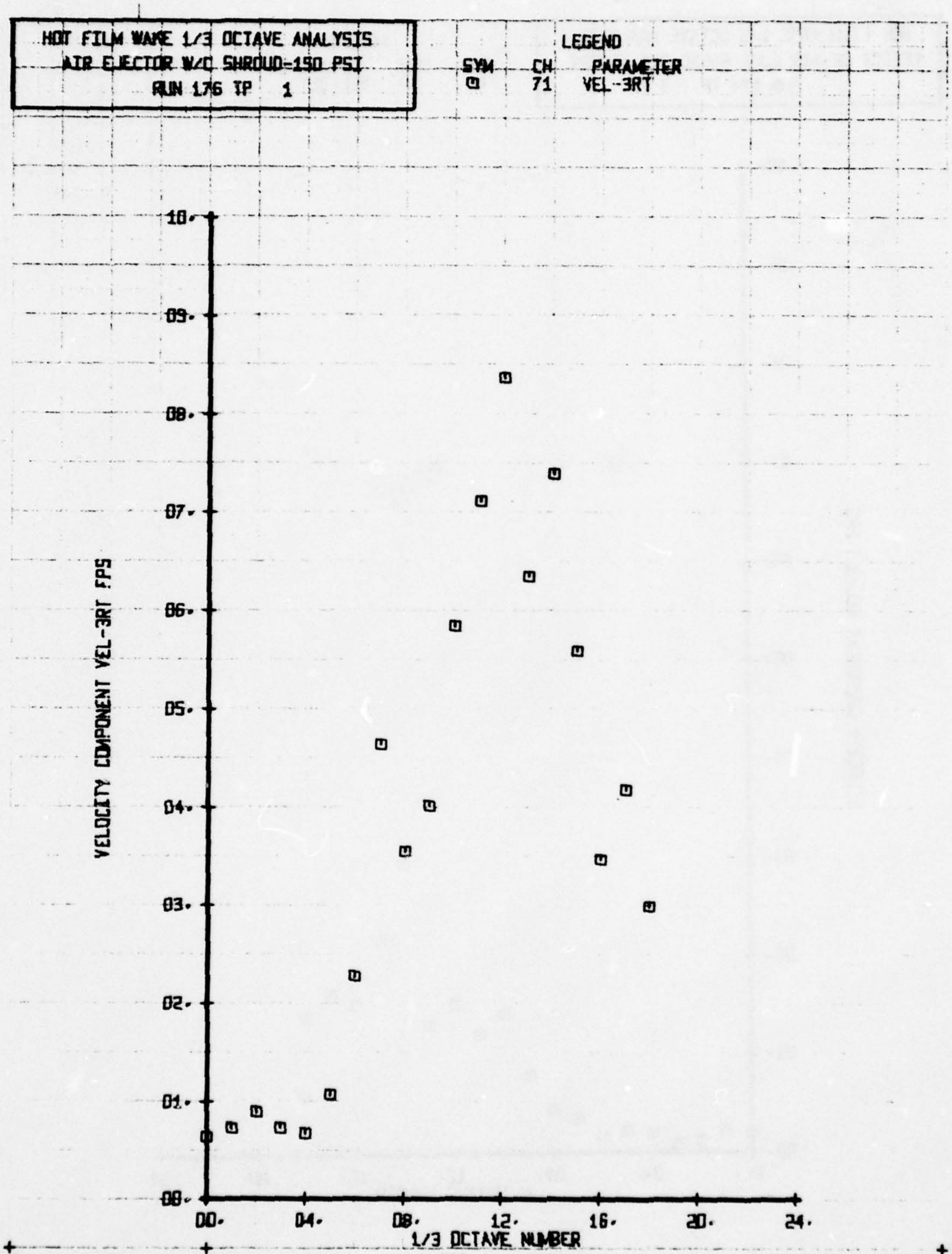
1/3 OCTAVE NUMBER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AIR EJECTOR W/O SHROUD-150 PSI
RUN 176 TP 1
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
1/3 OCTAVE NUMBER
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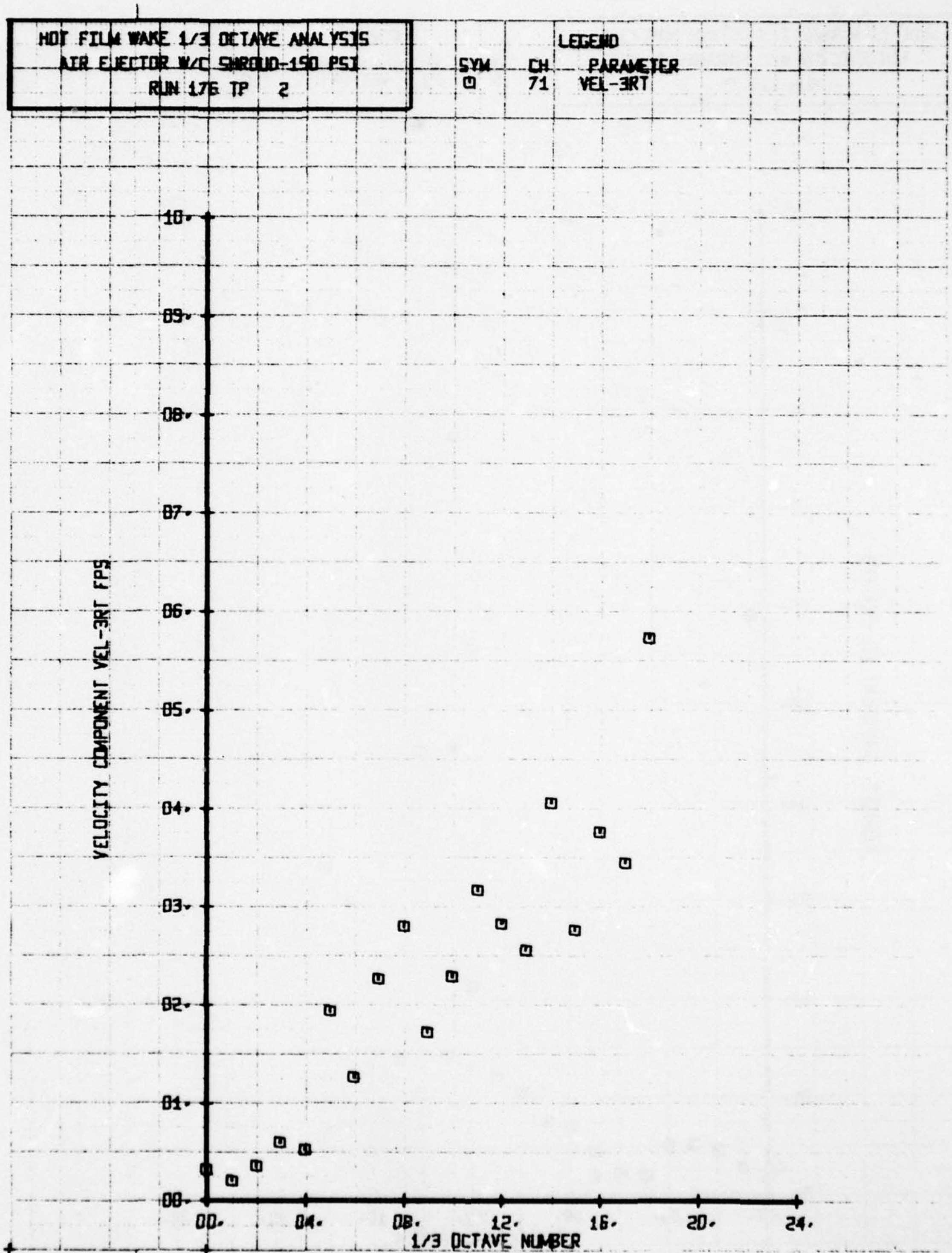
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AIR EJECTOR W/C SHROUD-150 PSI
RUN 176 TP 2
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
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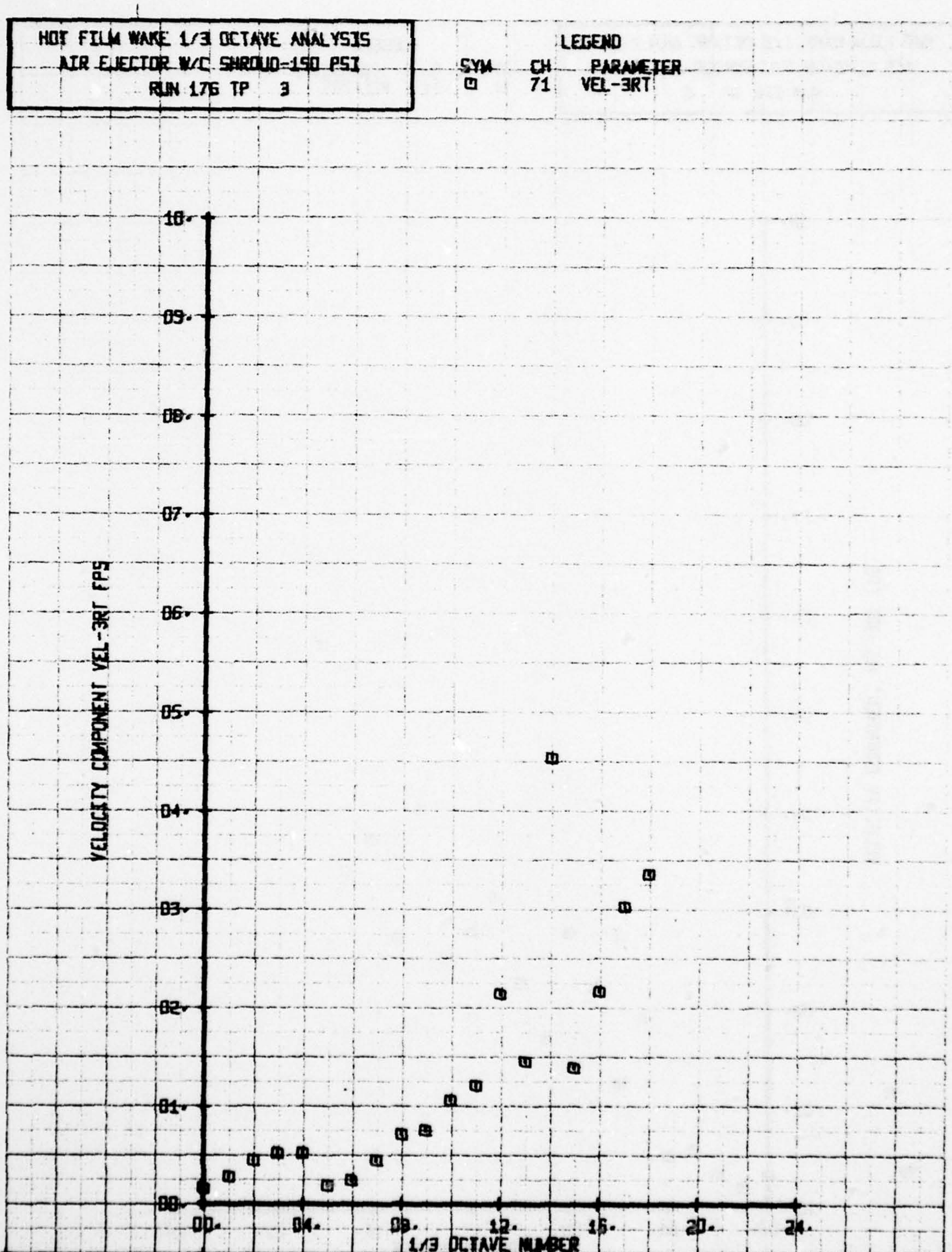
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AIR EJECTOR W/C SHROUD-150 PSI
RUN 176 TP 3
LEGEND
SYM CH PARAMETER
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VELOCITY COMPONENT VEL-3RT FPS
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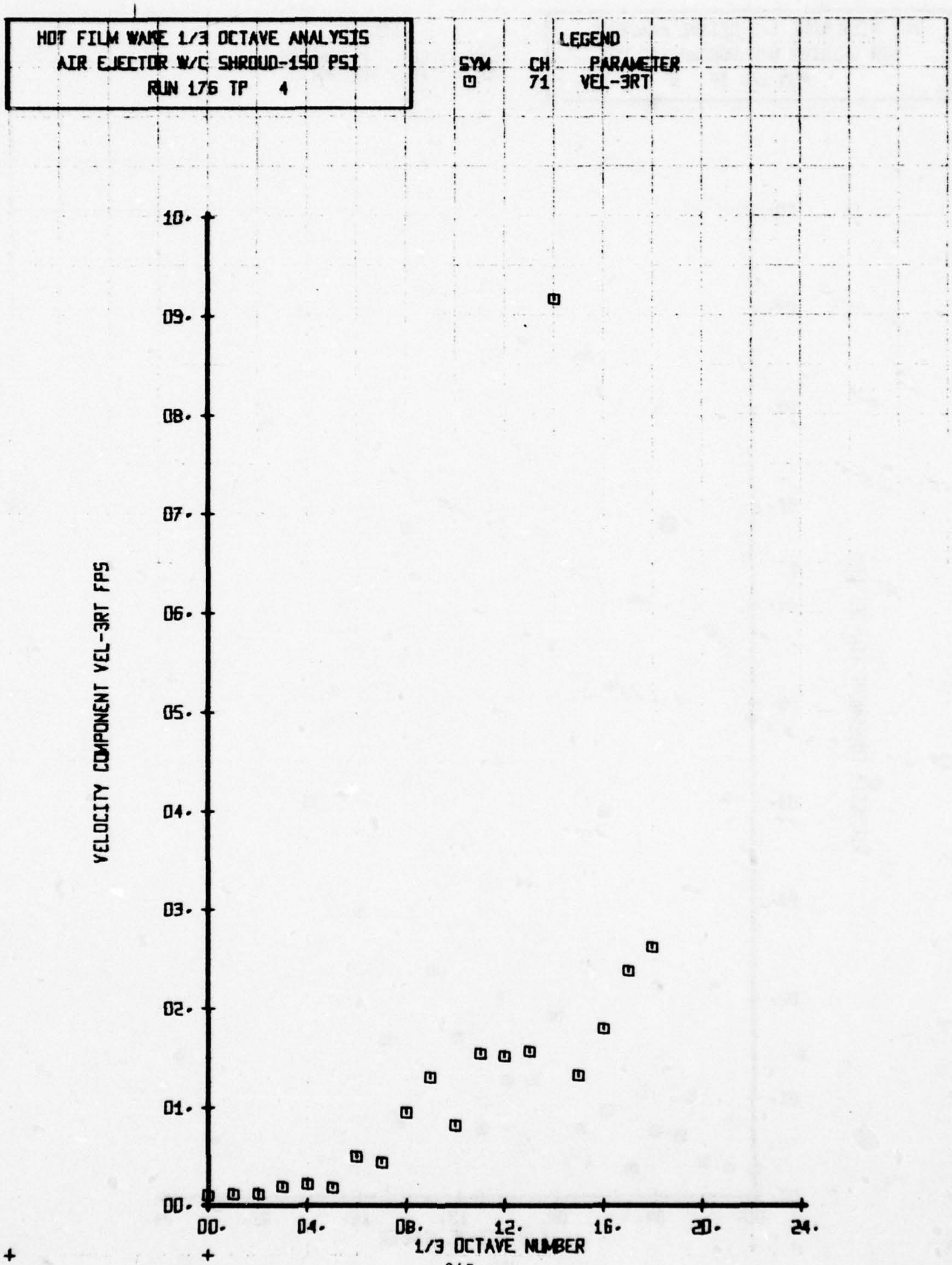
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RUN 176 TP 4
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SYM CH PARAMETER
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VELOCITY COMPONENT VEL-3RT FPS
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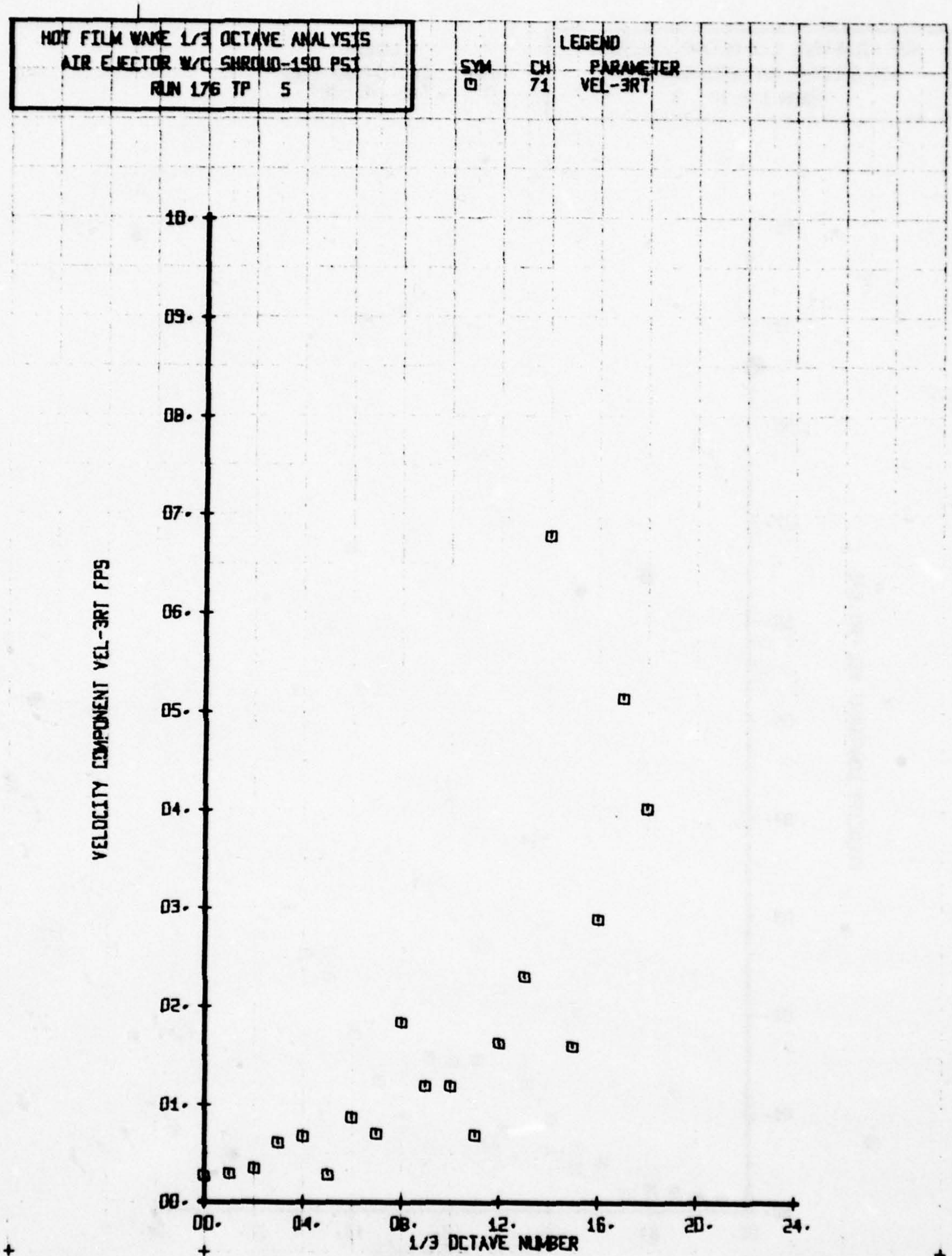
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AIR EJECTOR W/C SHROUD-150 PSI
RUN 176 TP 5
LEGEND
SYM CH PARAMETER
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VELOCITY COMPONENT VEL-3RT FPS
1/3 OCTAVE NUMBER
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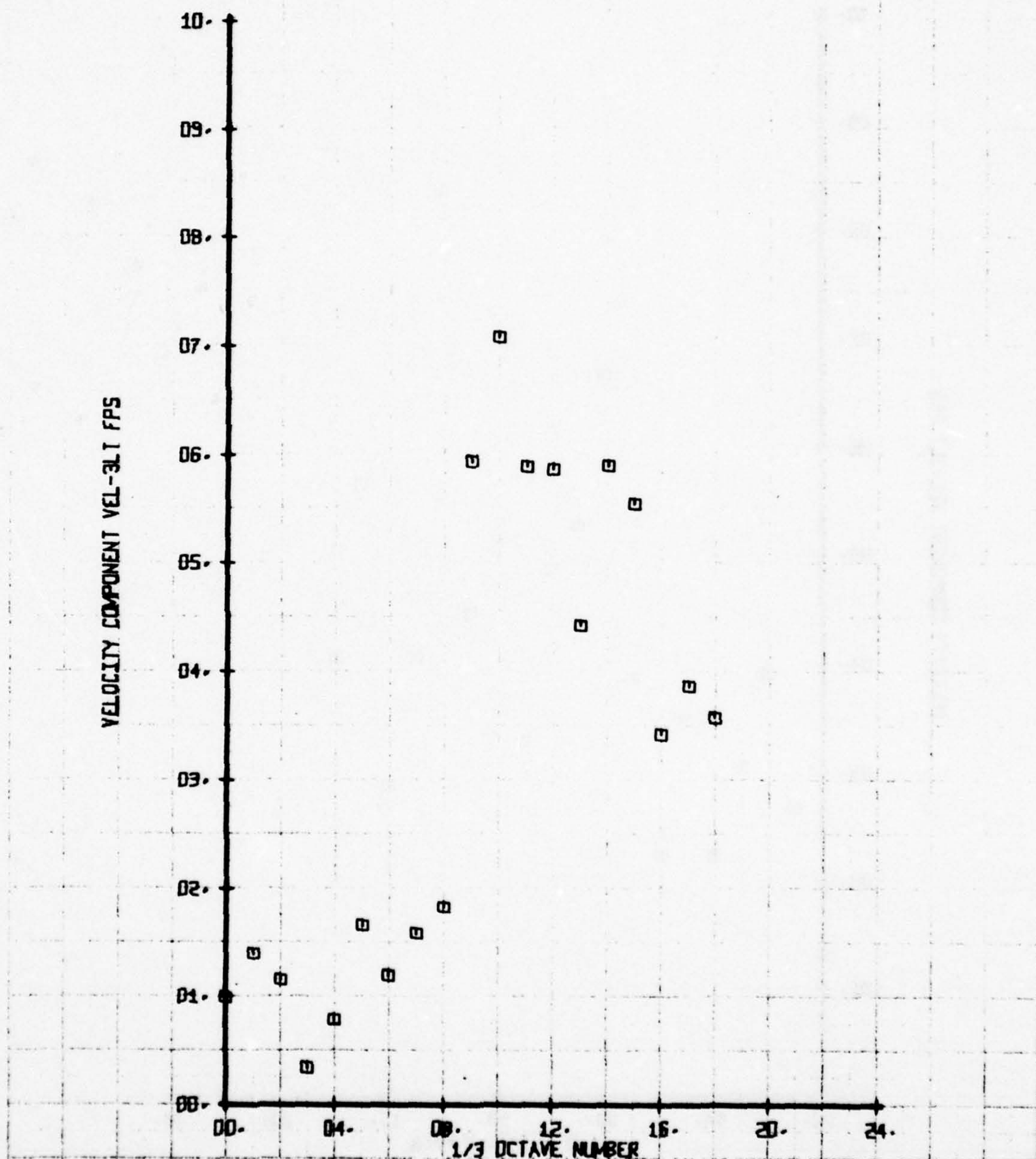
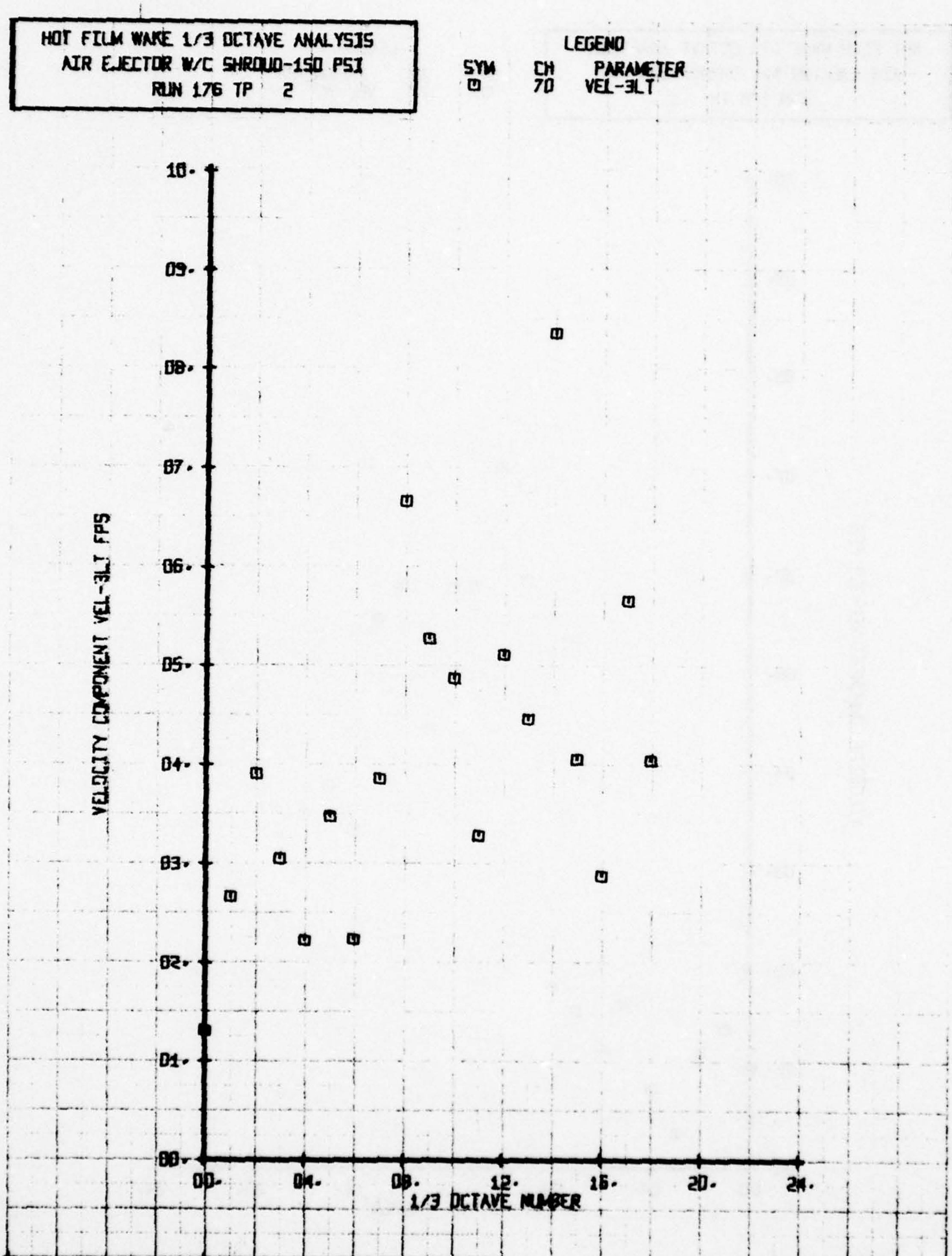
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
AIR EJECTOR W/C SHROUD-150 PSI
RUN 176 TP 1

LEGEND

SYM	CH	PARAMETER
⊡	70	VEL-3LT

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AIR EJECTOR W/C SHROUD-150 PSI
RUN 176 TP 2
LEGEND
SYM CH PARAMETER
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VELOCITY COMPONENT VEL-3LT FPS
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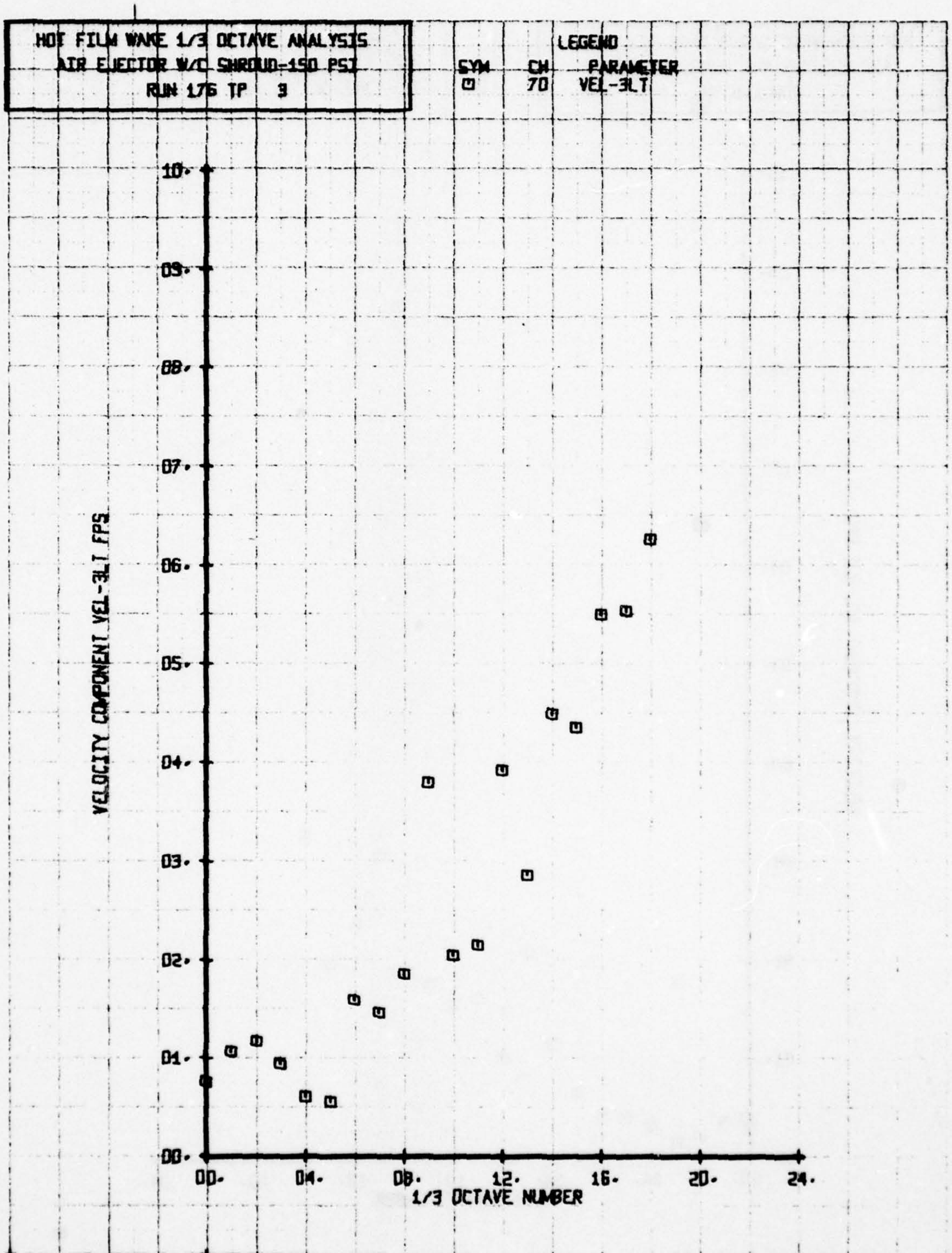
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RUN 176 TP 3
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SYM CH PARAMETER
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VELOCITY COMPONENT VEL-3LT FPS
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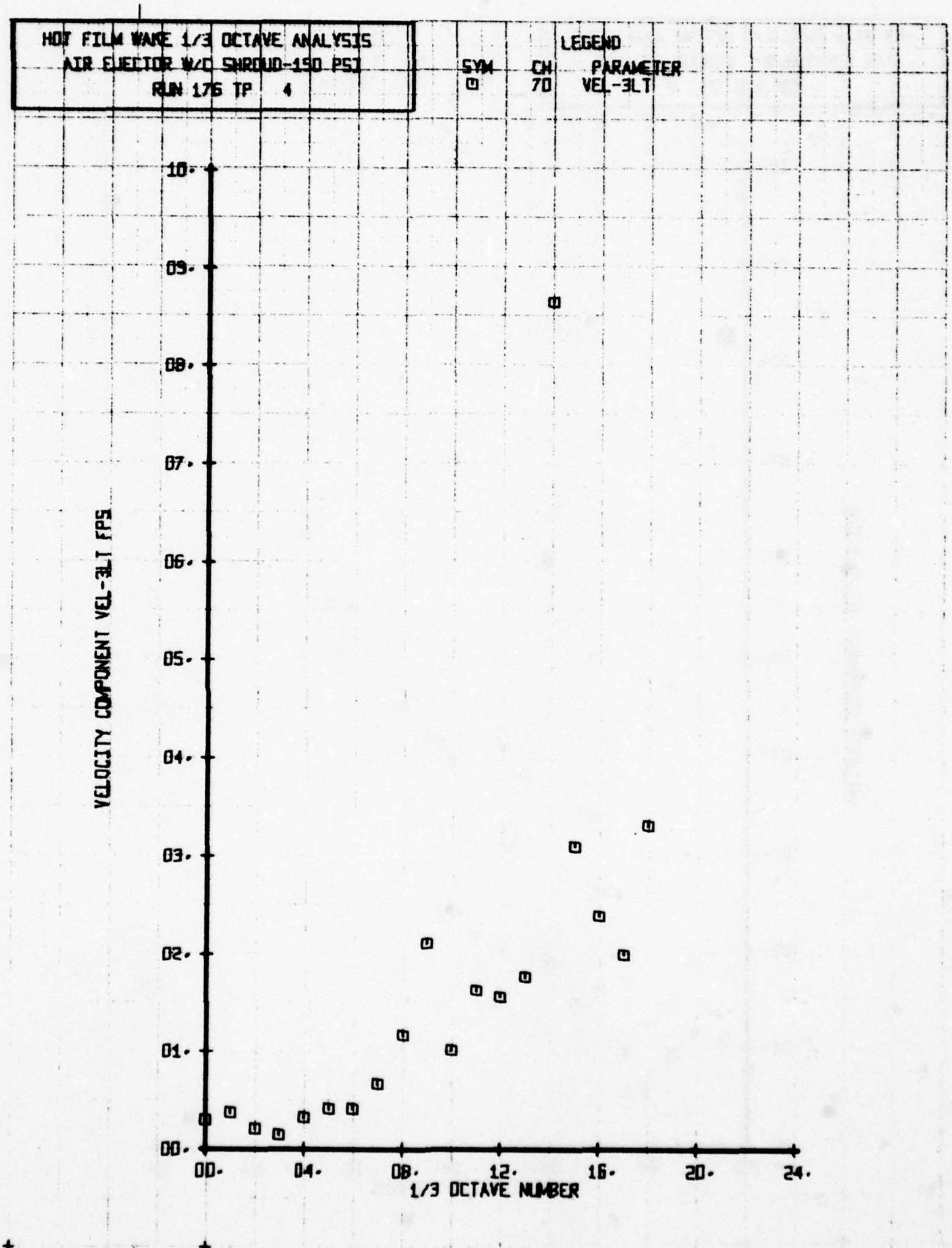
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RUN 176 TP 4
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VELOCITY COMPONENT VEL-3LT FPS
1/3 OCTAVE NUMBER
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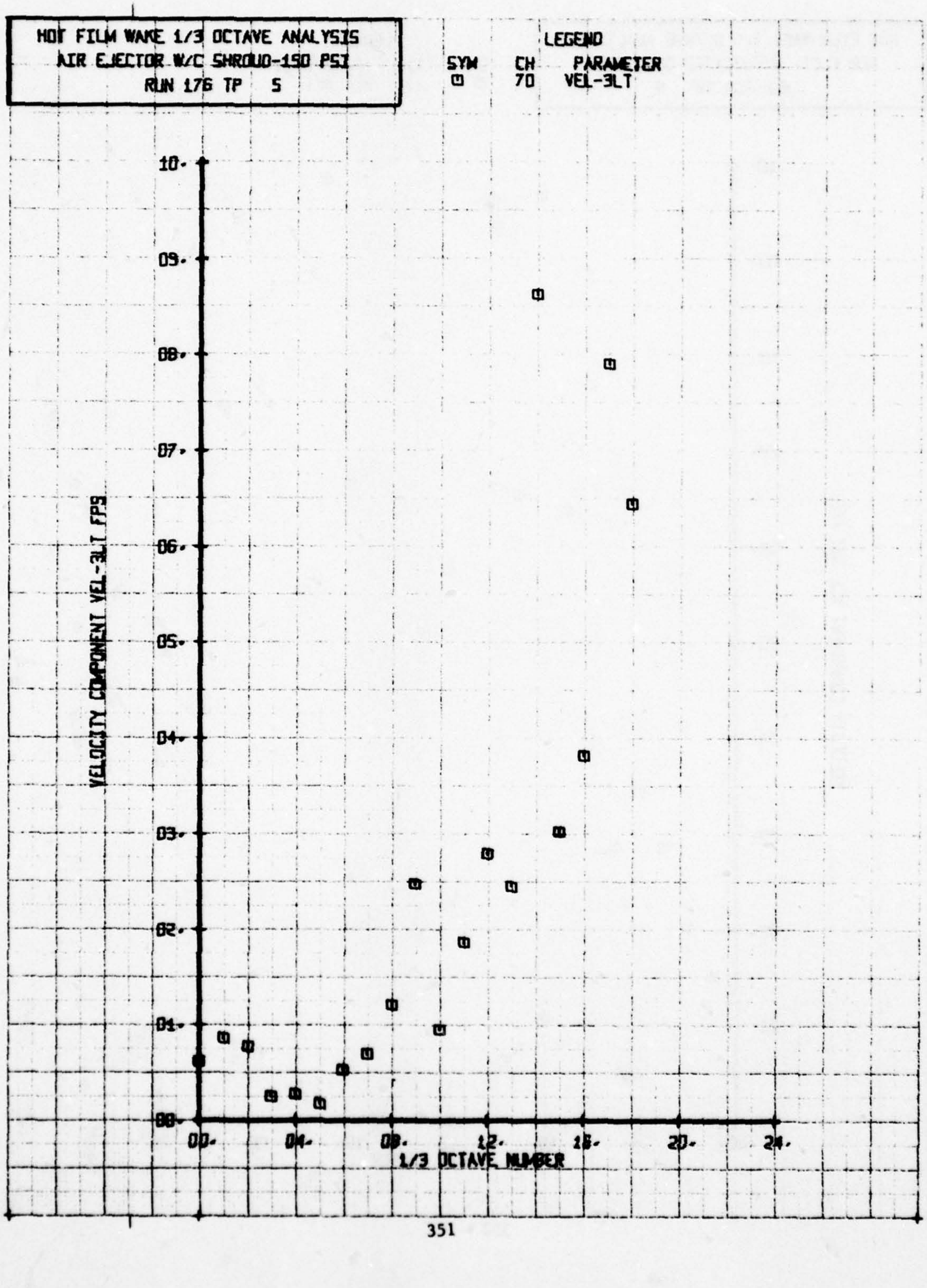
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AIR EJECTOR W/C SHROUD-150 PSI
RUN 176 TP 5
LEGEND
SYM CH PARAMETER
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VELOCITY COMPONENT VEL-3LT FPS
1/3 OCTAVE NUMBER
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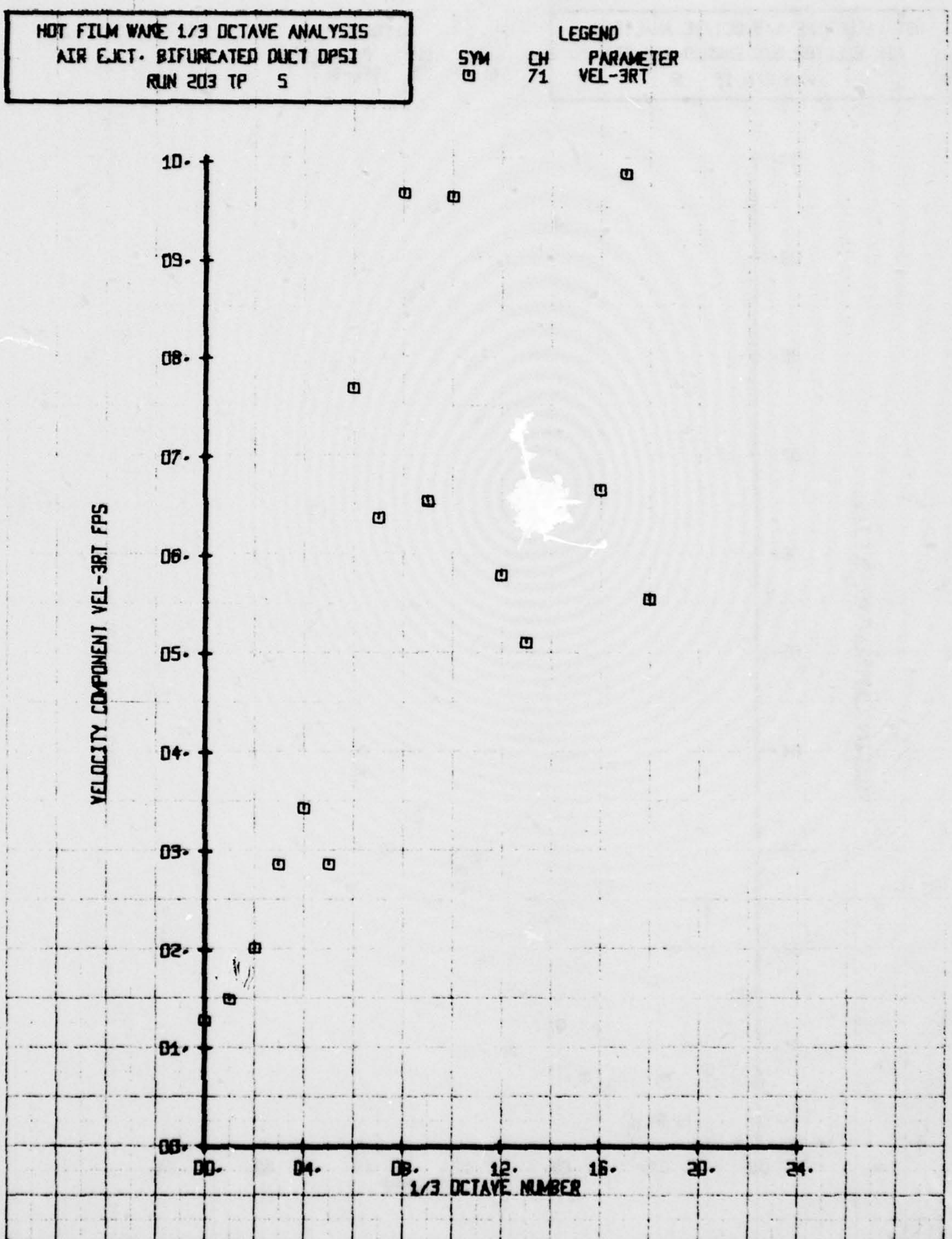
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AIR EJCT. BIFURCATED DUCT DPSI
RUN 203 TP 5
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
1/3 OCTAVE NUMBER
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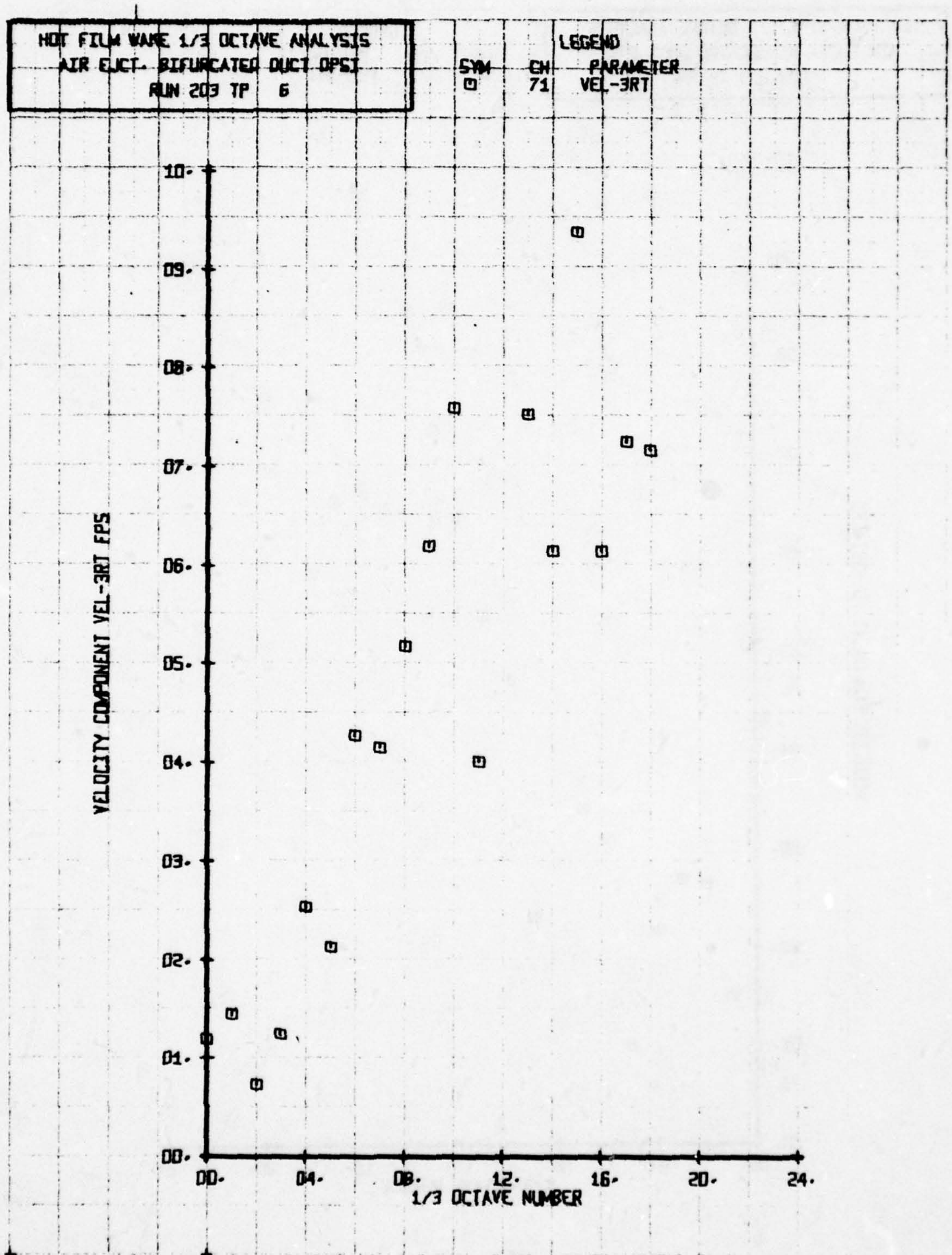
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AIR EJCT. BIFURCATED DUCT OPSI
RUN 203 TP 6
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
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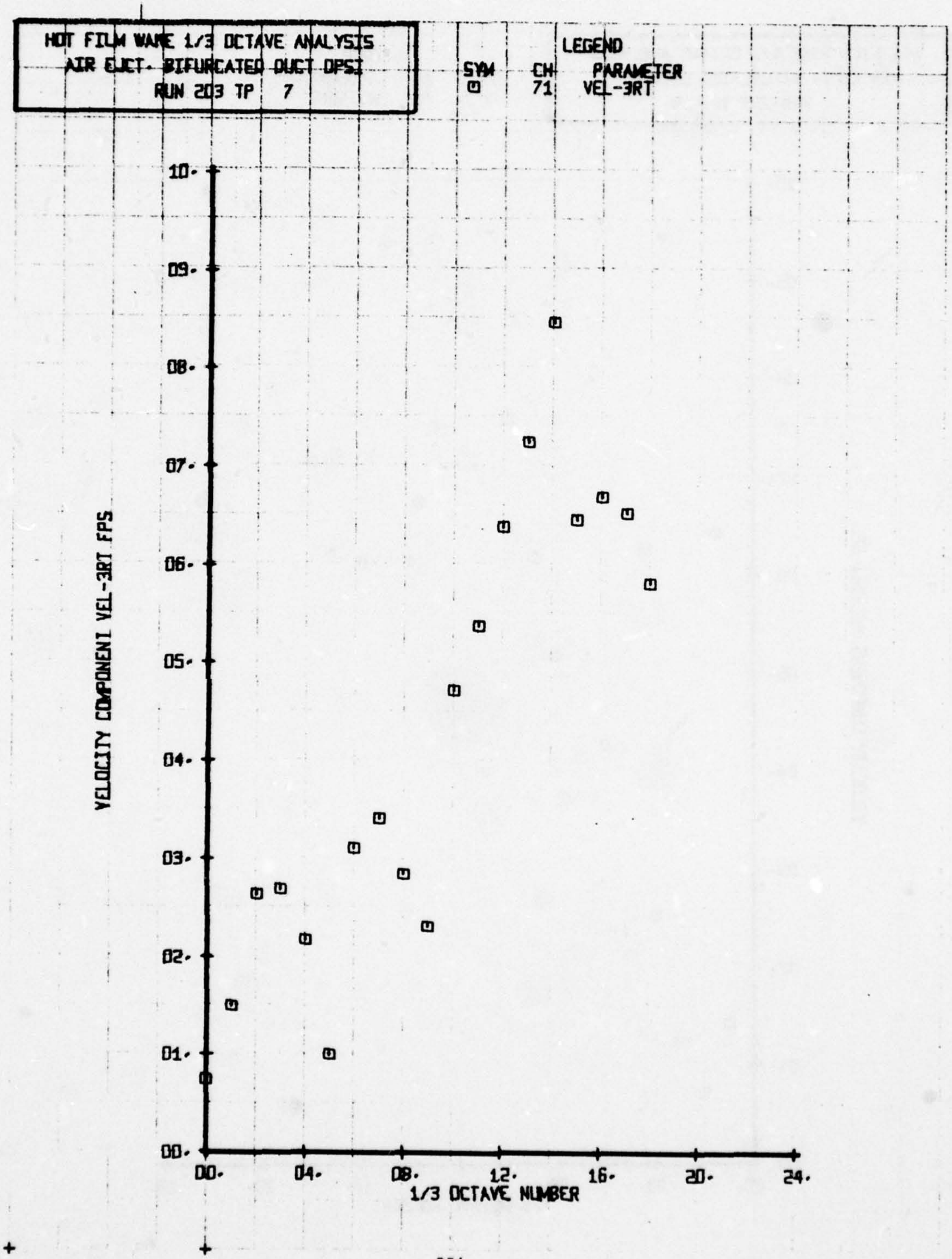
1/3 OCTAVE NUMBER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AIR EJCT. BIFURCATED DUCT DPSI
RUN 203 TP 7
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
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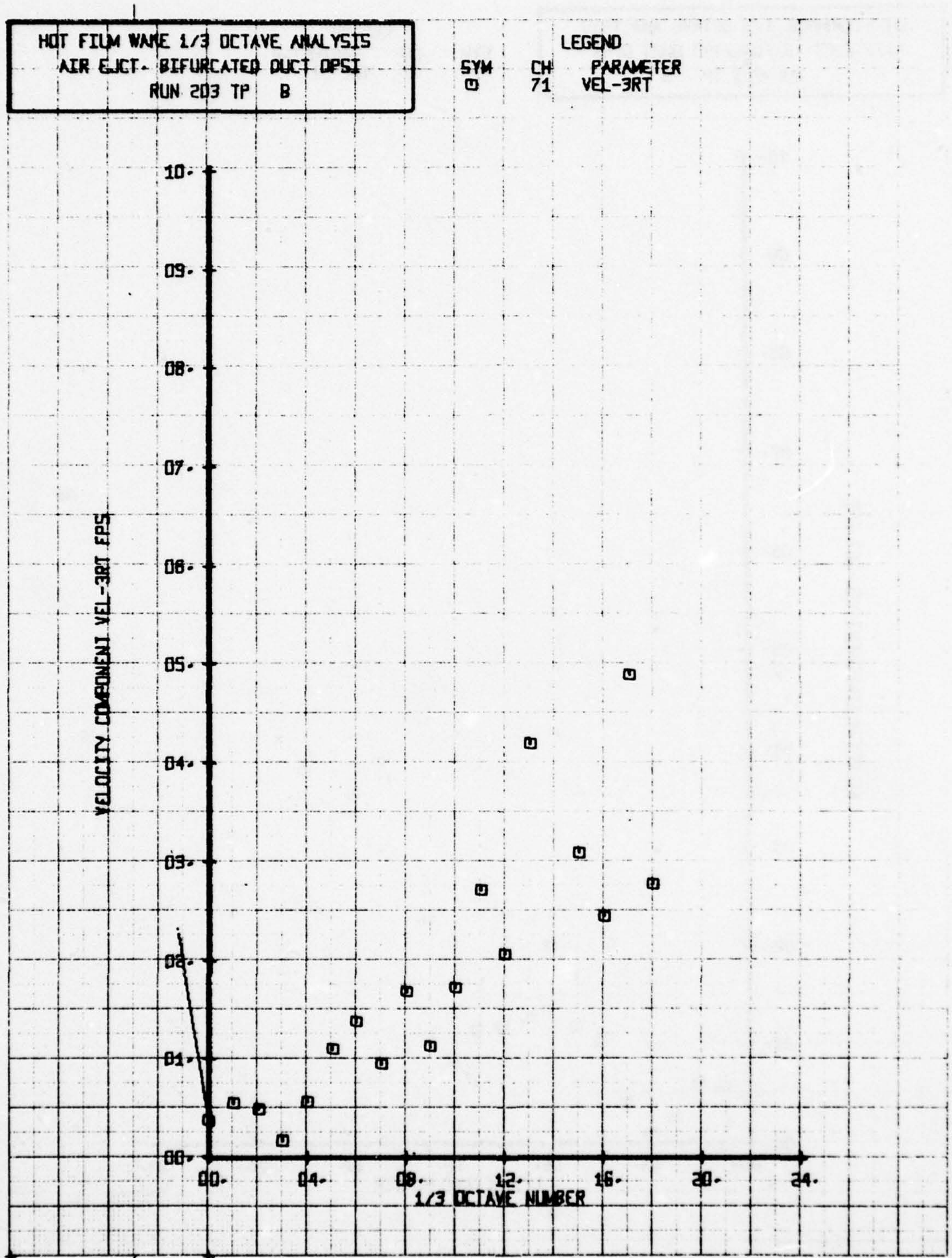
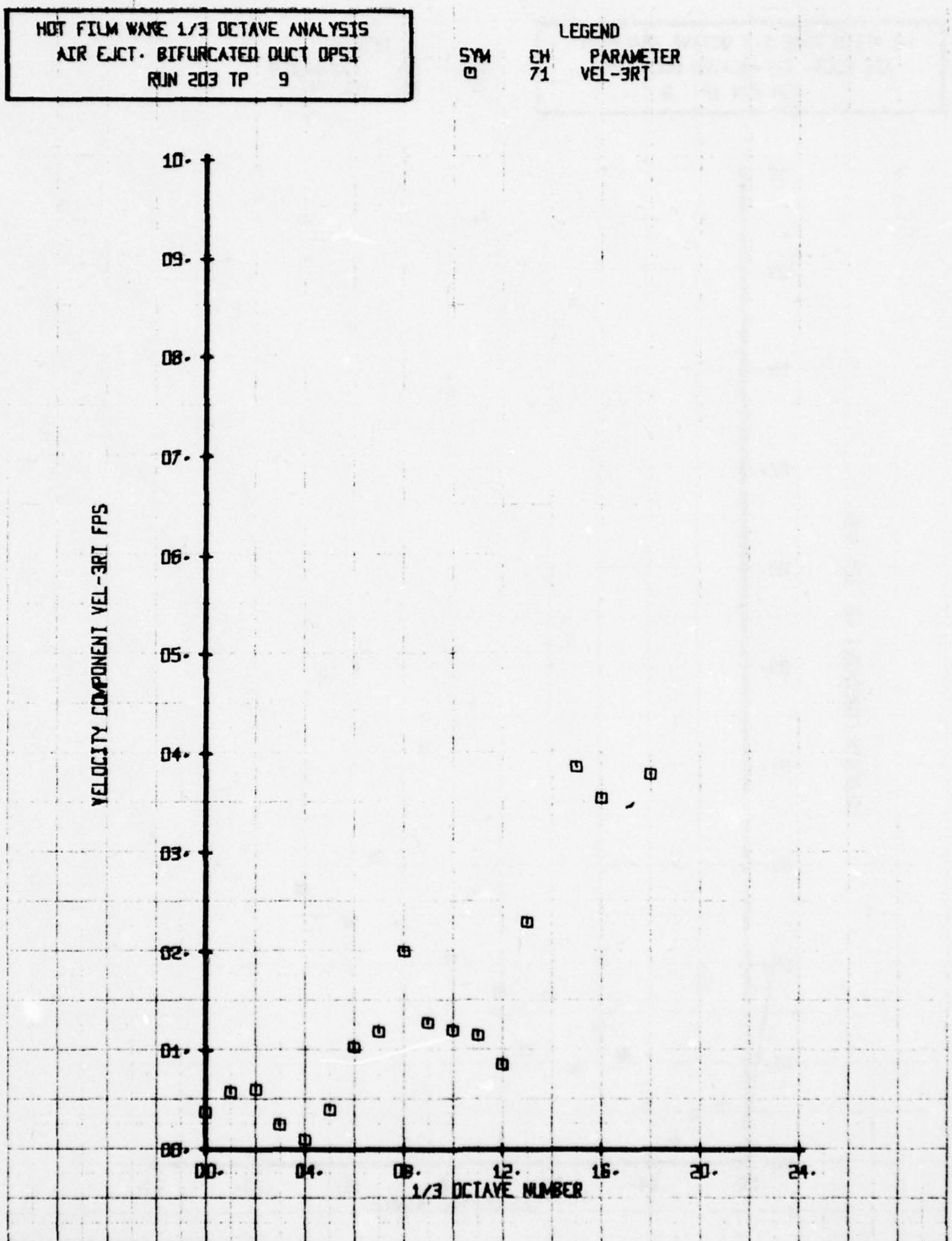
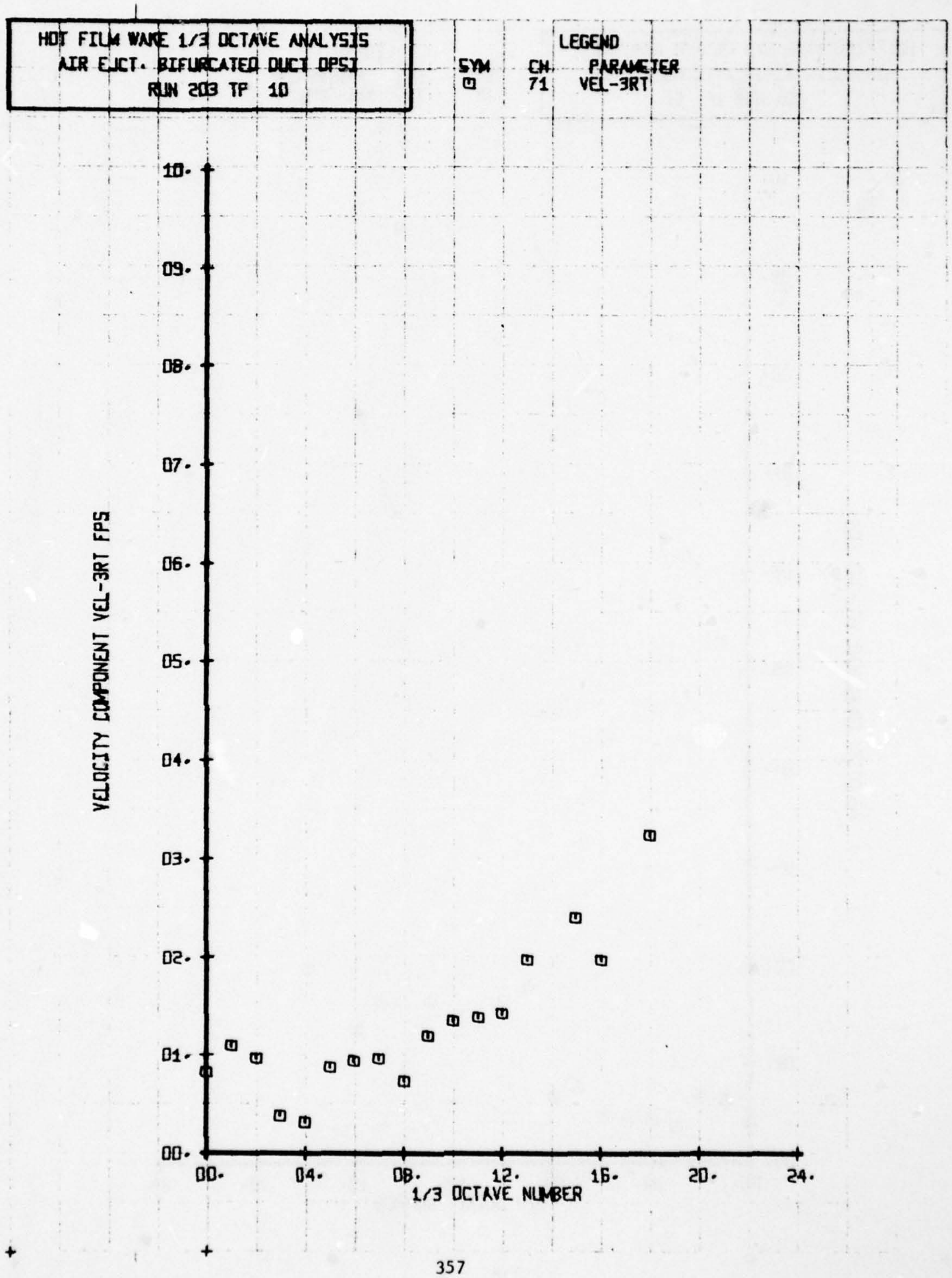


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
AIR EJCT- BIFURCATED DUCT OPSI
RUN 203 TP B
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
1/3 OCTAVE NUMBER

HOT FILM WAKE 1/3 OCTAVE ANALYSIS
AIR EJCT. BIFURCATED DUCT 0PSI
RUN 203 TP 9





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AIR EJCT. BIFURCATED DUCT OPSI
RUN 203 TP 10
LEGEND
SYM CH. PARAMETER
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VELOCITY COMPONENT VEL-3RT FPS
1/3 OCTAVE NUMBER
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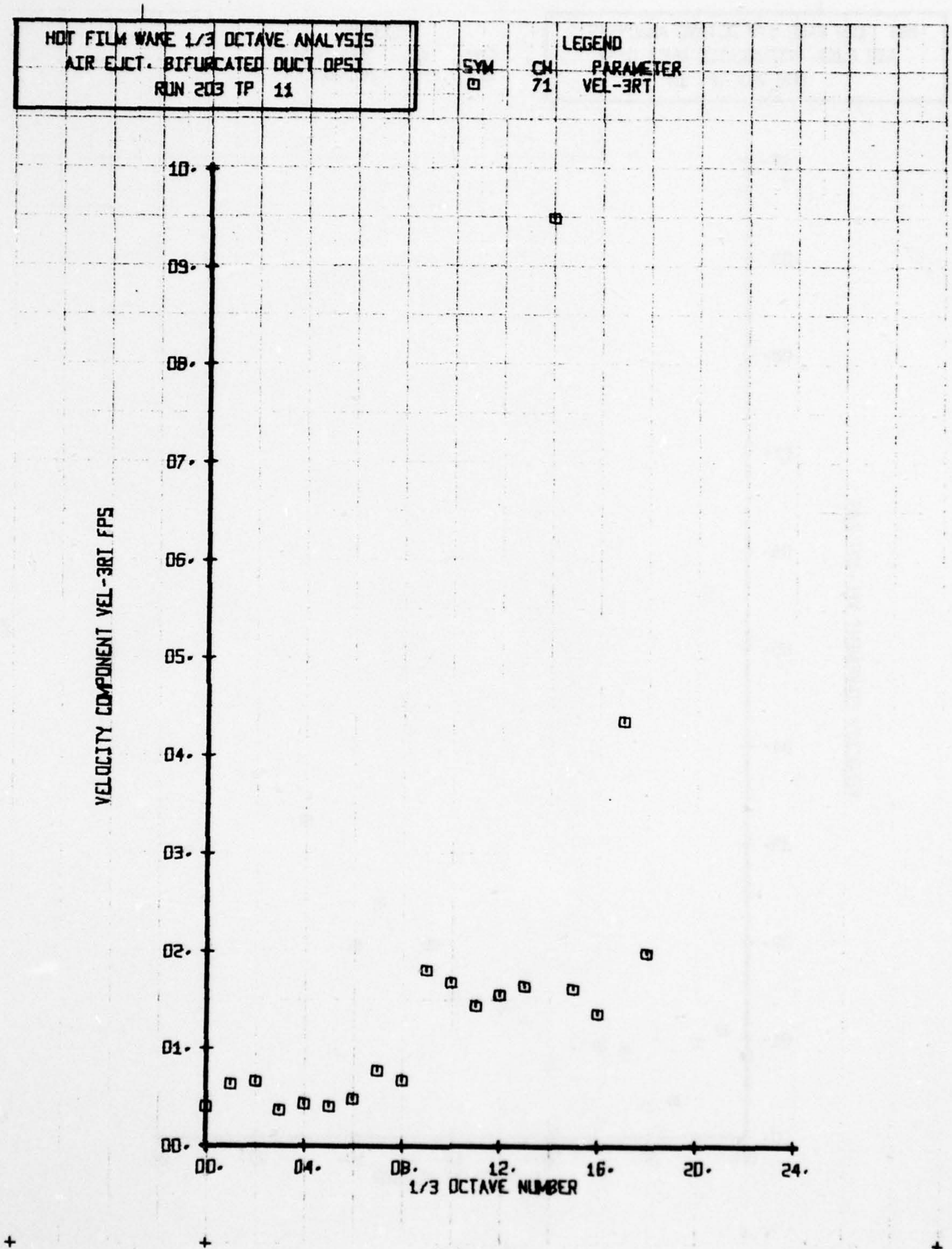
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AIR EJCT. BIFURCATED DUCT OPSI
RUN 203 TP 11
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RI FPS
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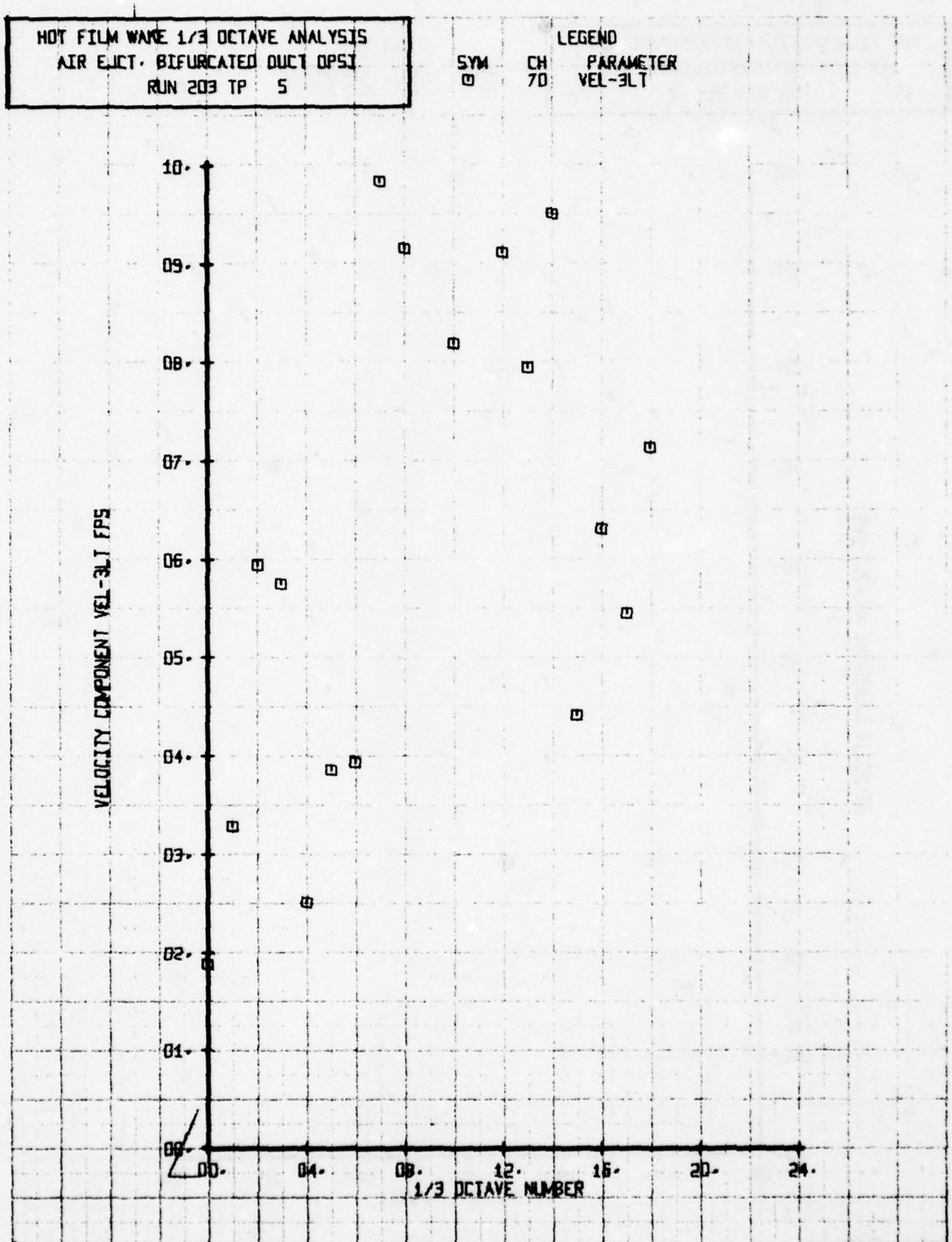

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AIR EJCT. BIFURCATED DUCT 0PSI
RUN 203 TP 5
LEGEND
SYM CH PARAMETER
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VELOCITY COMPONENT VEL-3LT FPS
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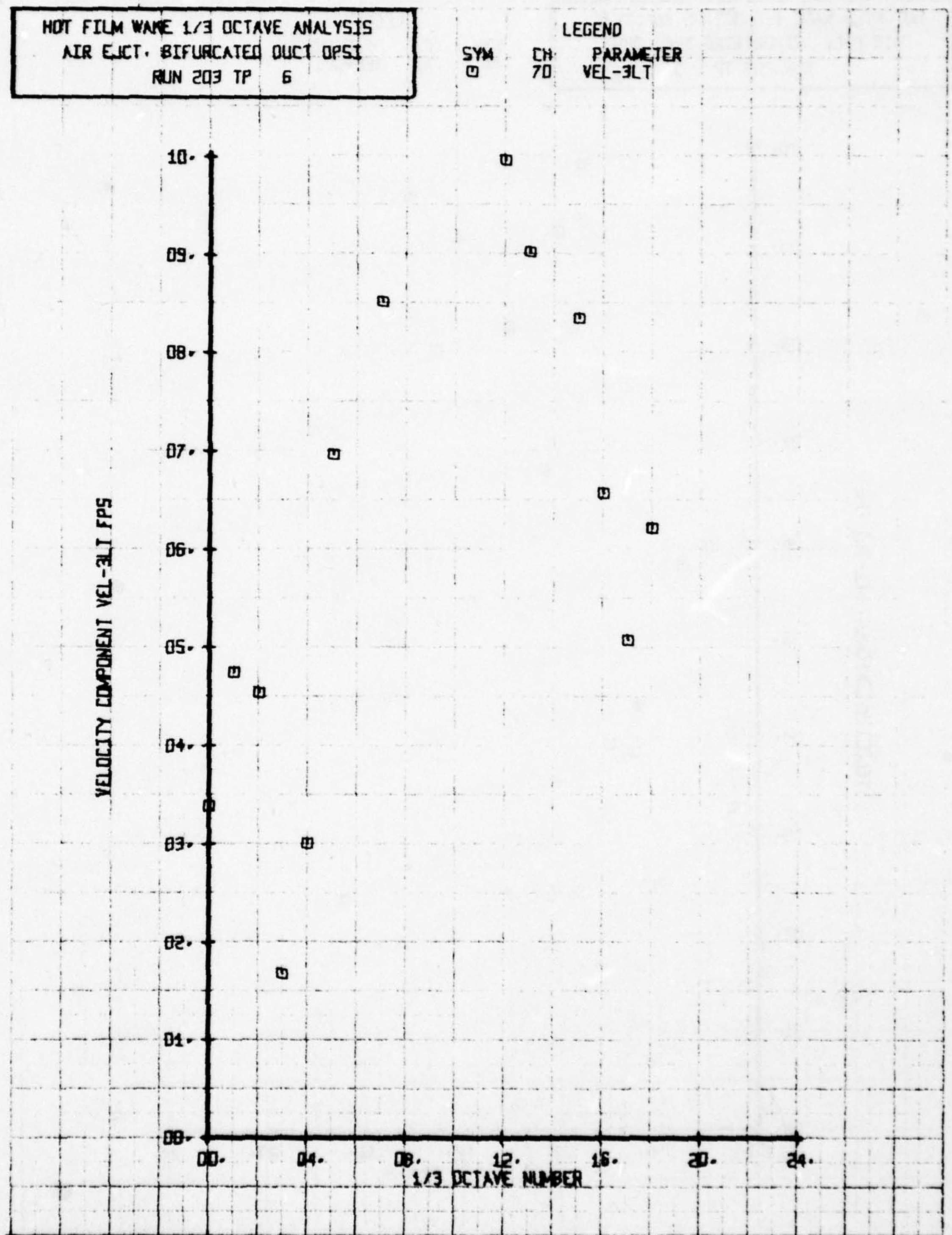
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RUN 203 TP 6
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SYM CH PARAMETER
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VELOCITY COMPONENT VEL-3LT FPS
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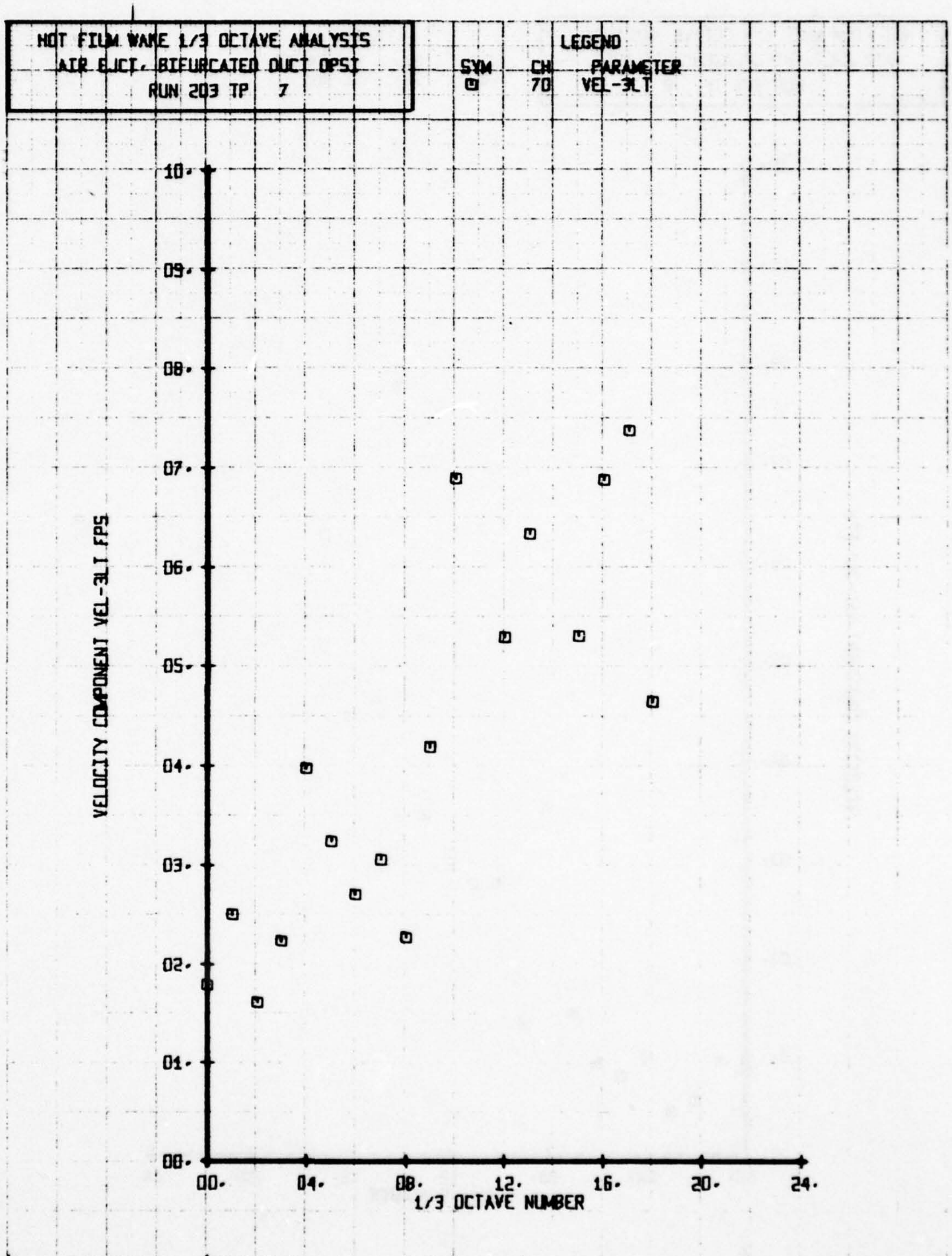
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RUN 203 TP 7
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VELOCITY COMPONENT VEL-3LT FPS
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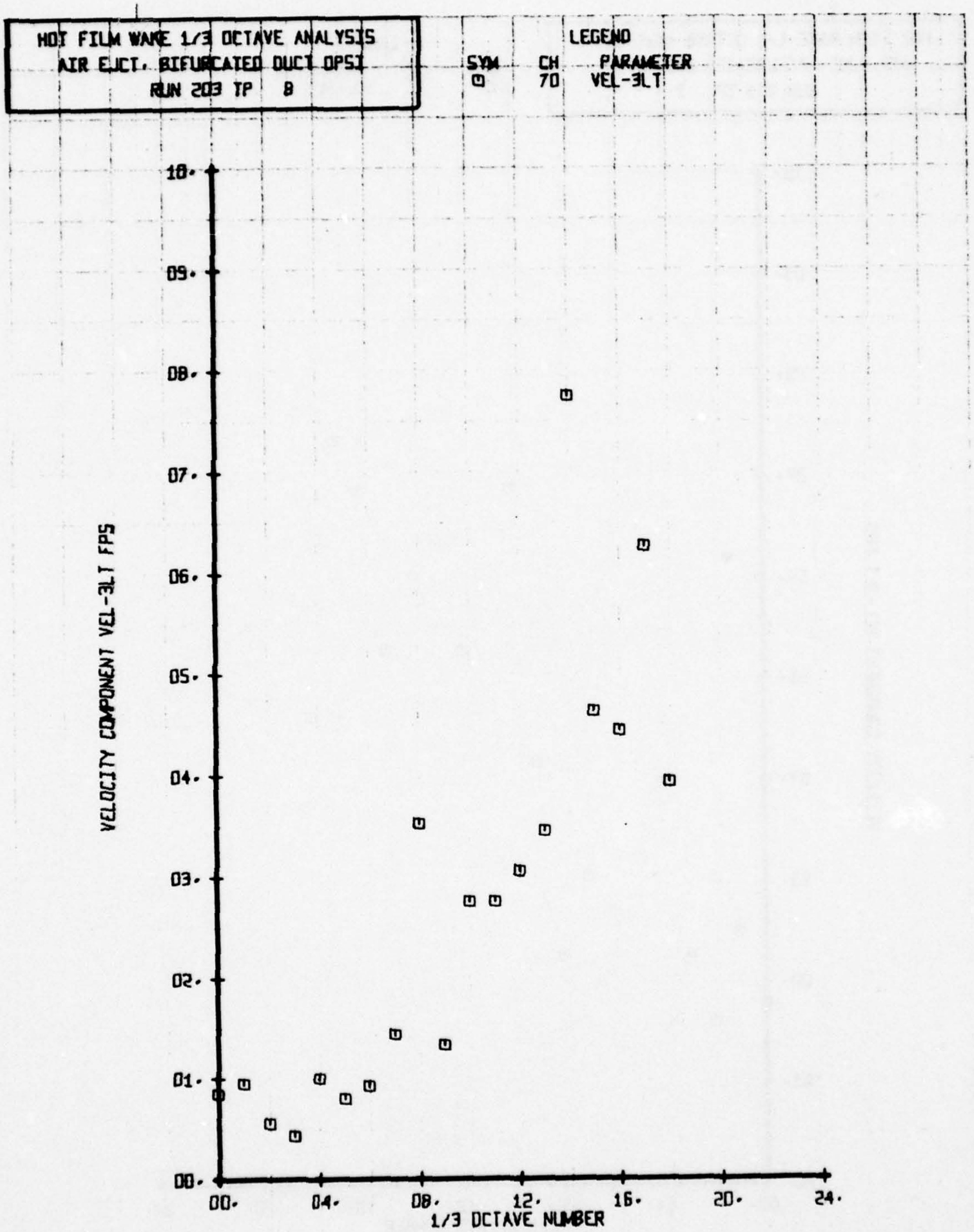

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VELOCITY COMPONENT VEL-3LT FPS
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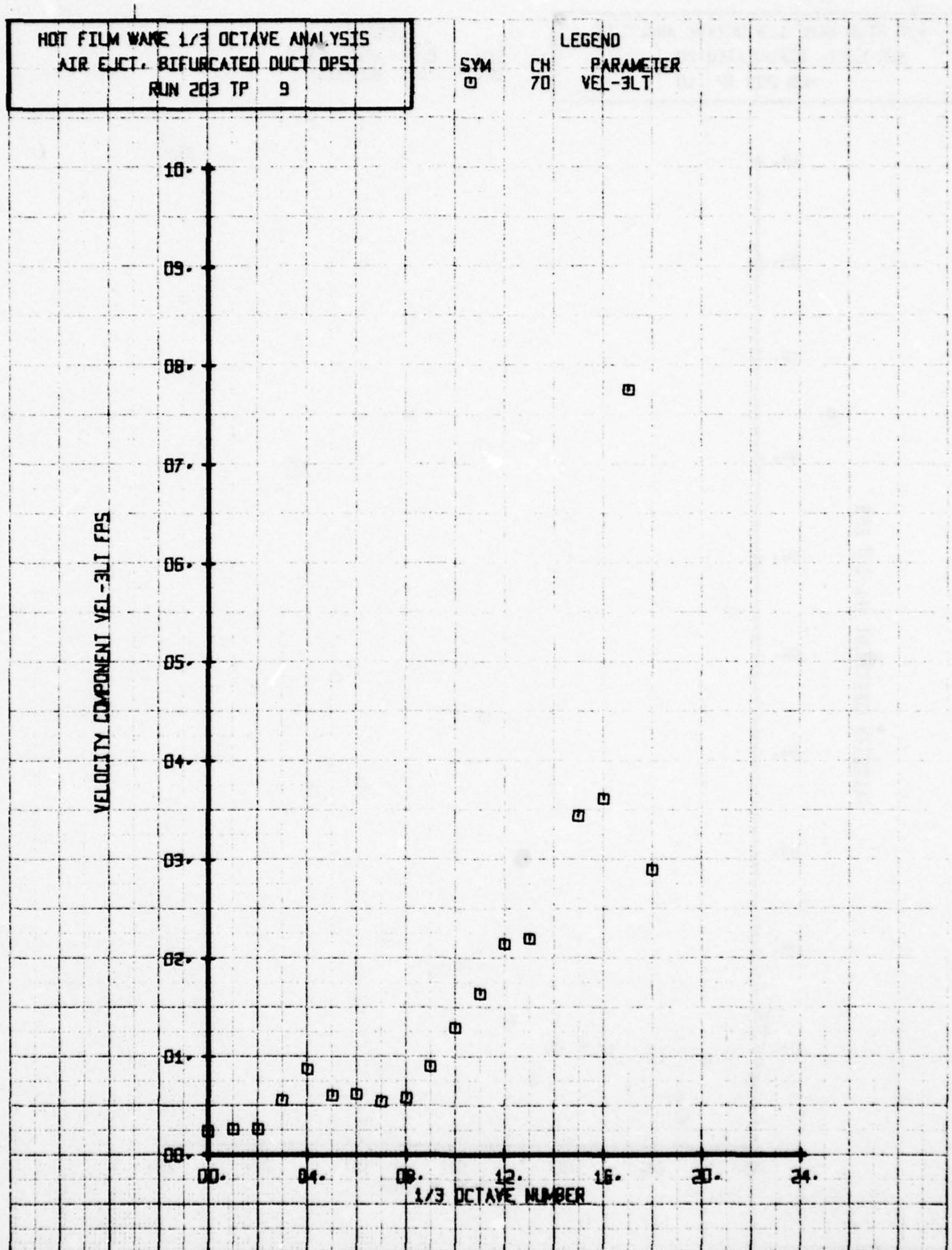
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VELOCITY COMPONENT VEL-3LT FPS
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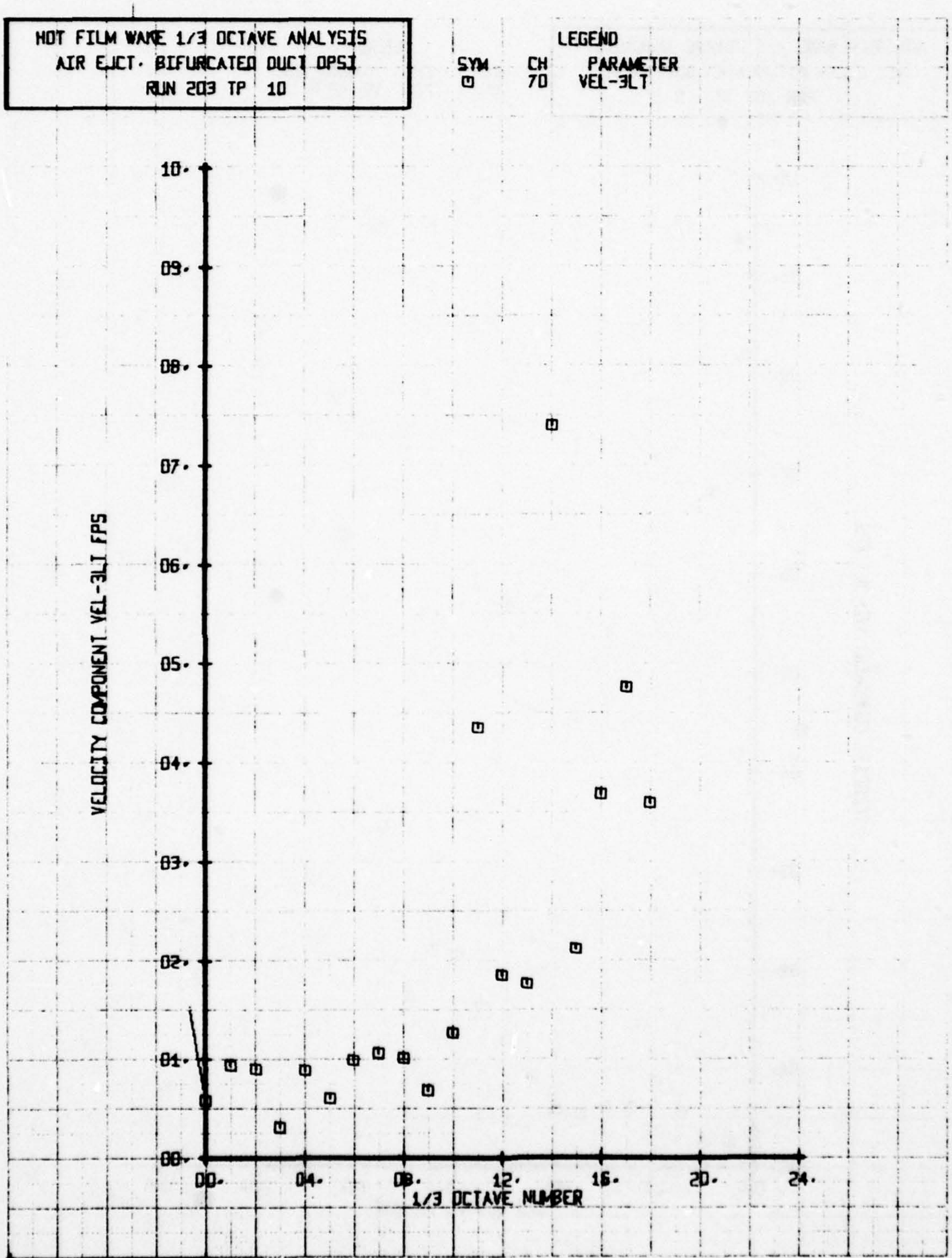
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VELOCITY COMPONENT VEL-3LT FPS
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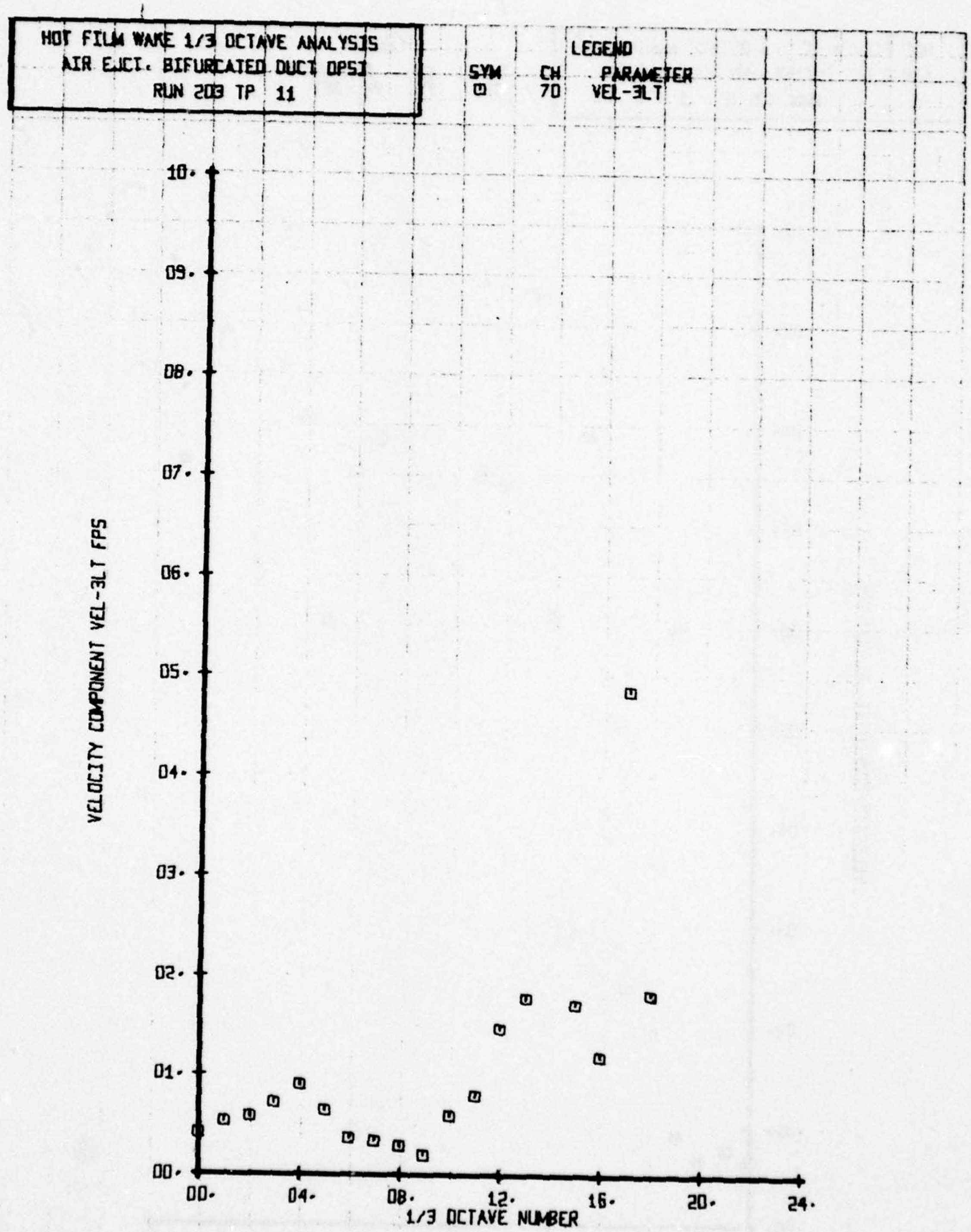
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RUN 203 TP 11
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VELOCITY COMPONENT VEL-3LT FPS
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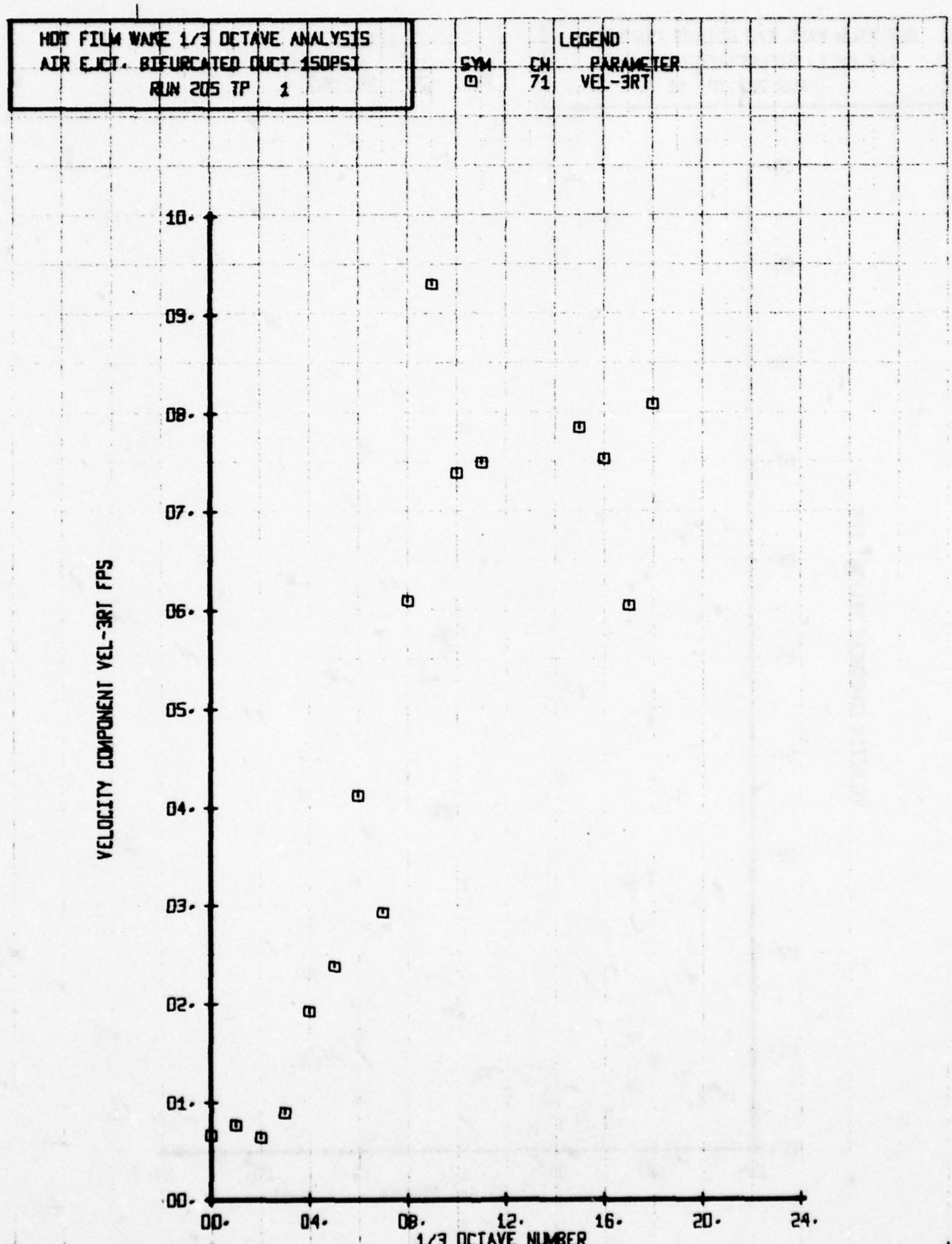
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AIR EJCT. BIFURCATED DUCT 150PSI
RUN 205 TP 1
LEGEND
SYM CH PARAMETER
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VELOCITY COMPONENT VEL-3RT FPS
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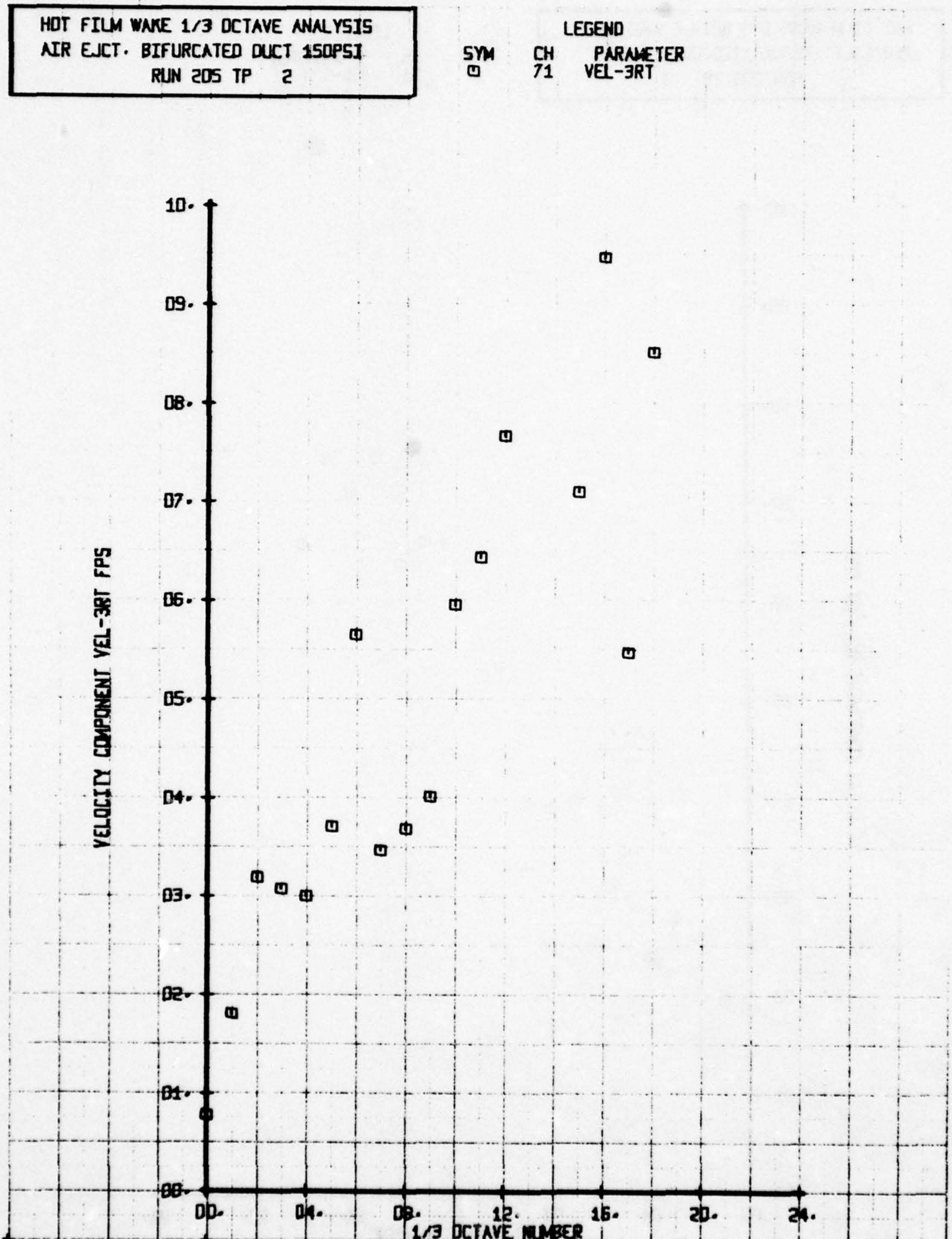
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RUN 205 TP 2
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VELOCITY COMPONENT VEL-3RT FPS
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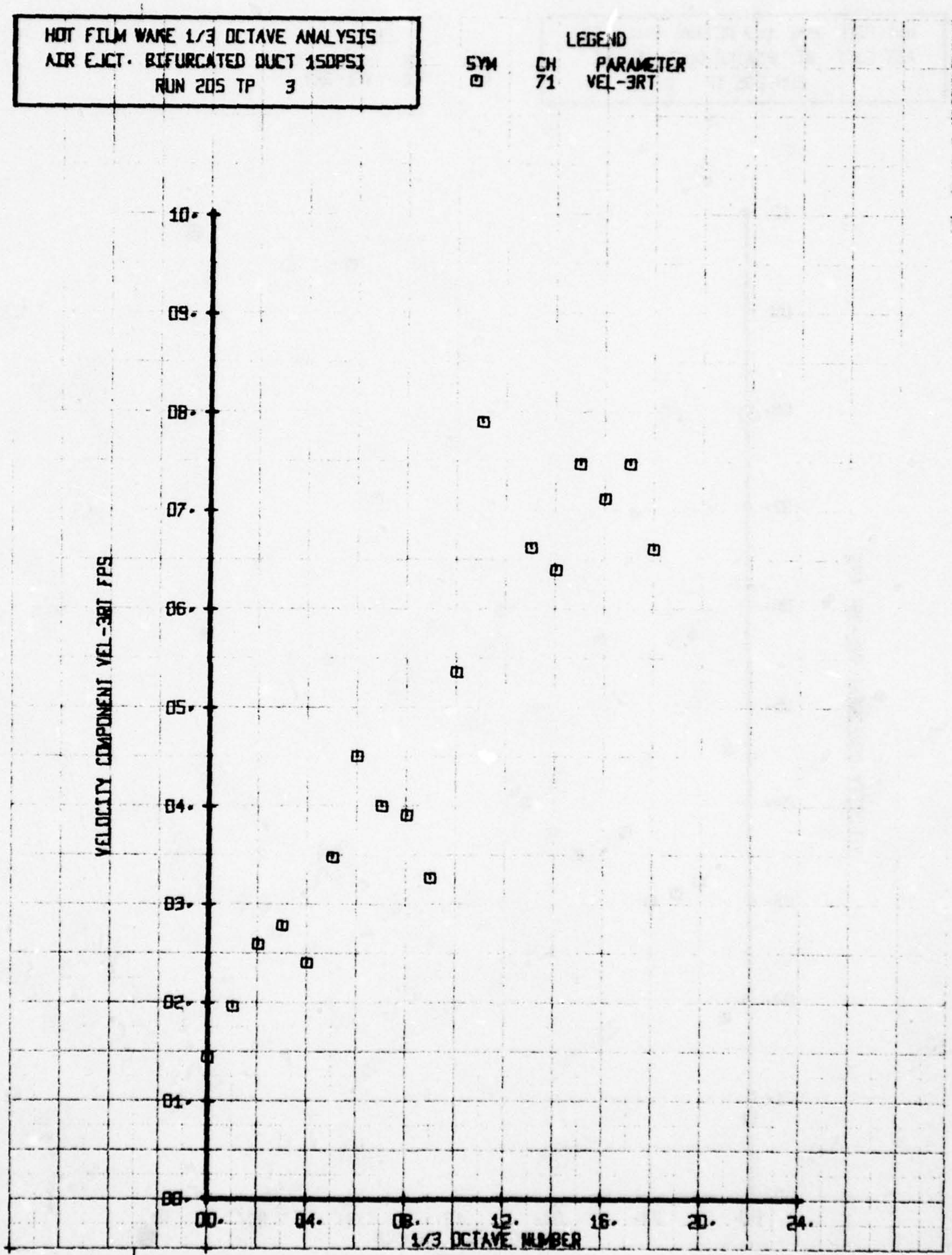
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RUN 205 TP 3
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VELOCITY COMPONENT VEL-3RT FPS
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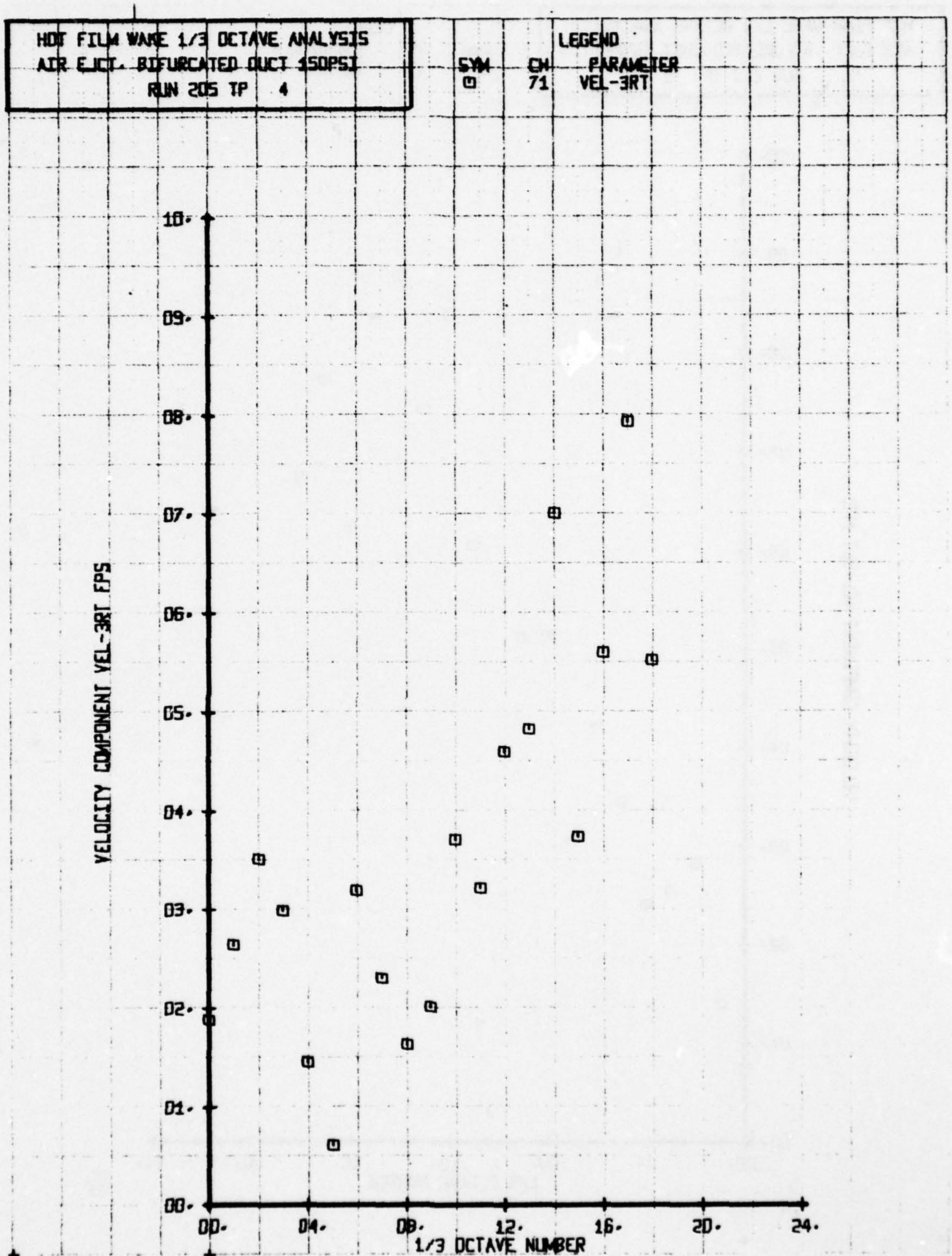
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RUN 205 TP 4
LEGEND
SYM CH PARAMETER
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VELOCITY COMPONENT VEL-3RT FPS
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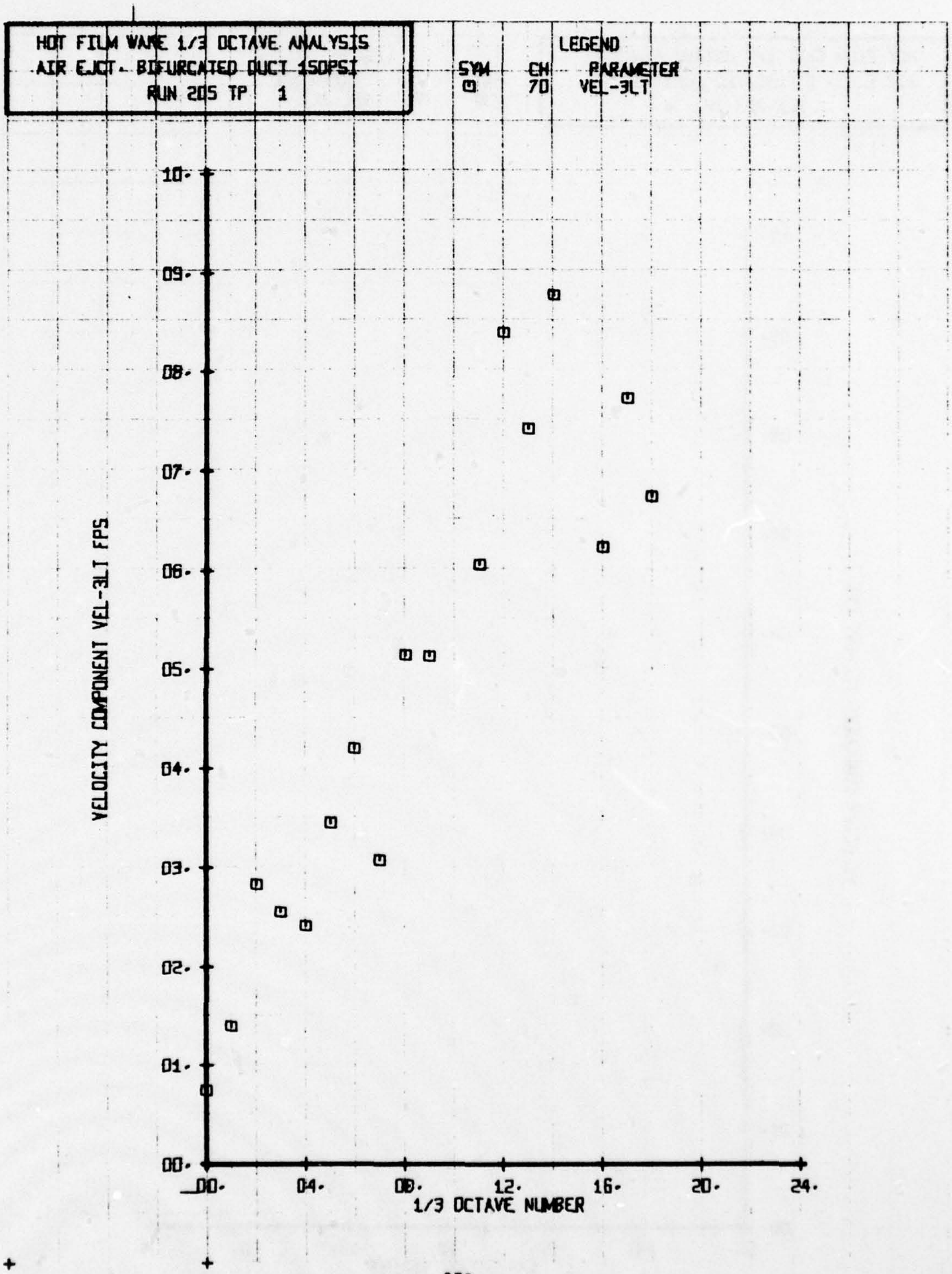
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AIR EJCT- BIFURCATED DUCT 150PSI
RUN 205 TP 1
LEGEND
SYM CH PARAMETER
70 VEL-3LT
VELOCITY COMPONENT VEL-3LT FPS
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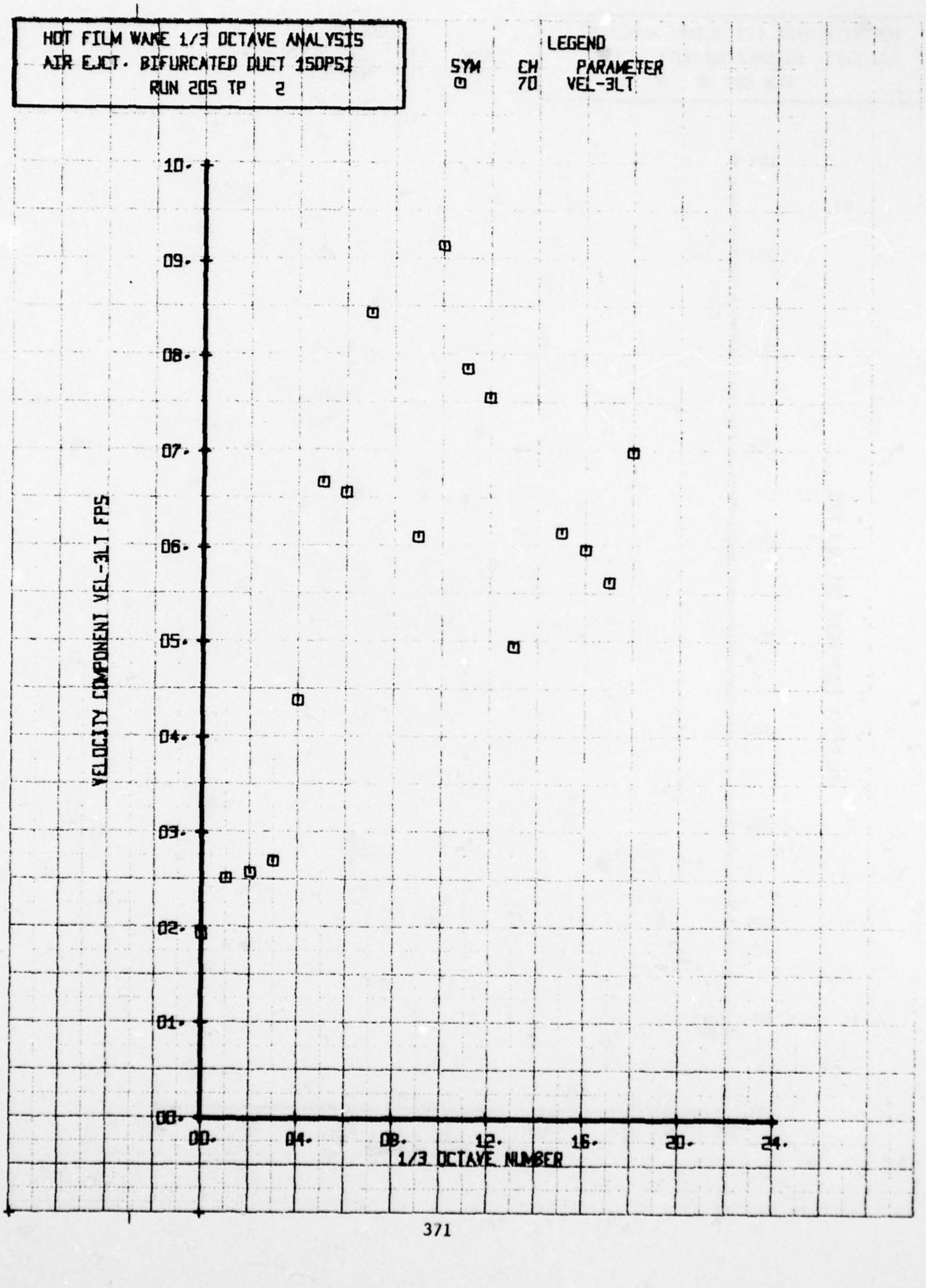
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RUN 205 TP 2
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SYM CH PARAMETER
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VELOCITY COMPONENT VEL-3LT FPS
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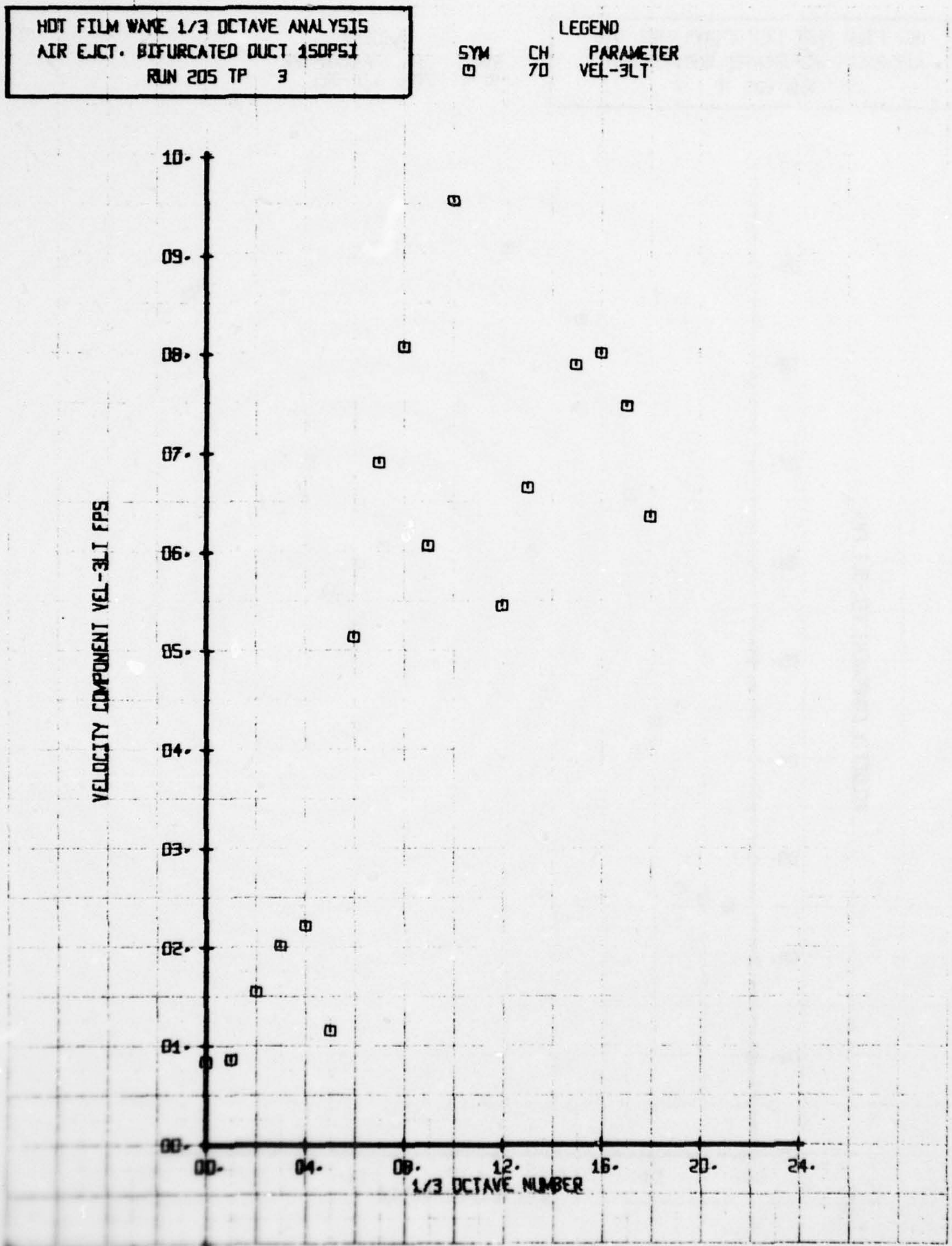
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VELOCITY COMPONENT VEL-3LI FPS
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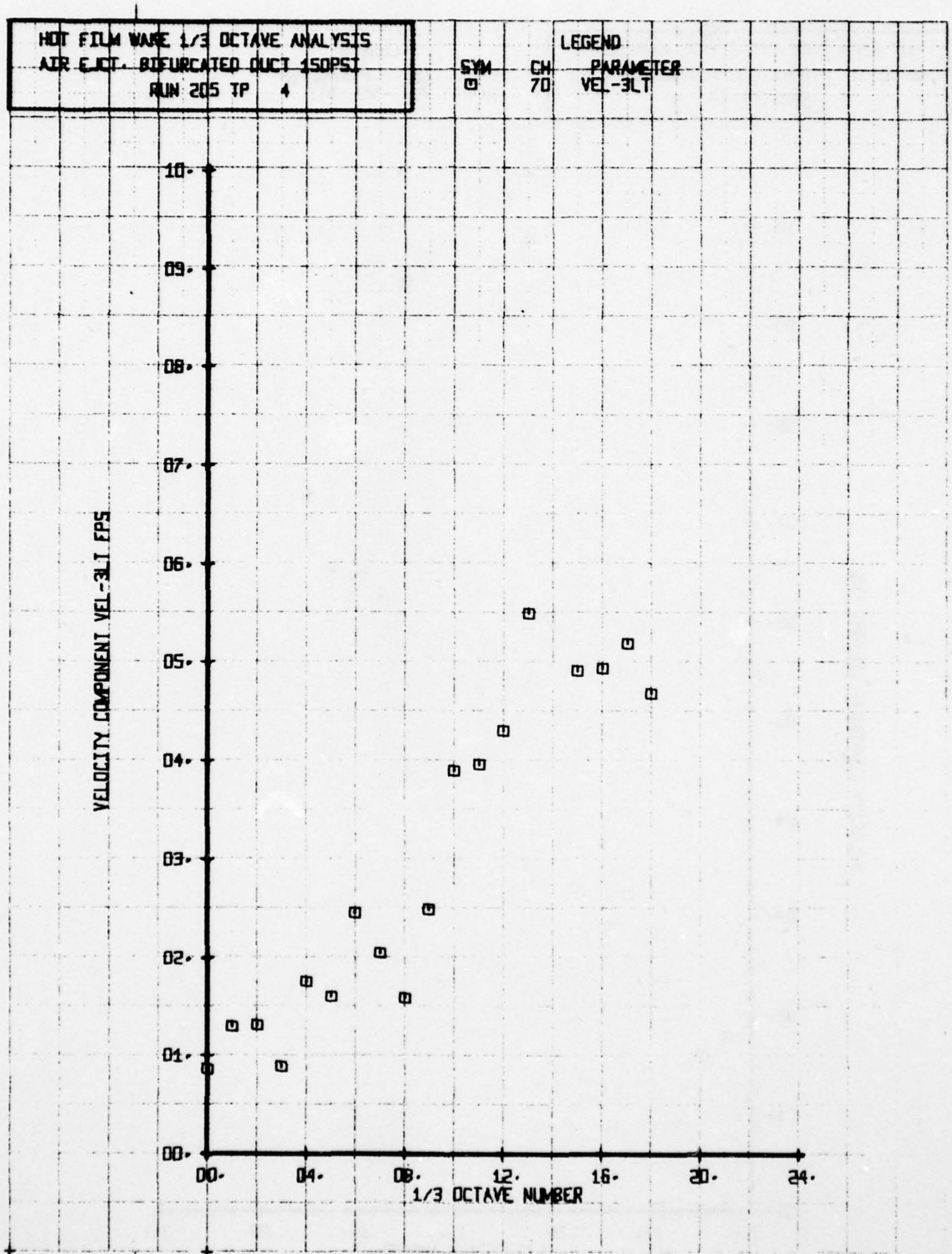
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RUN 205 TP 4
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VELOCITY COMPONENT VEL-3LT FPS
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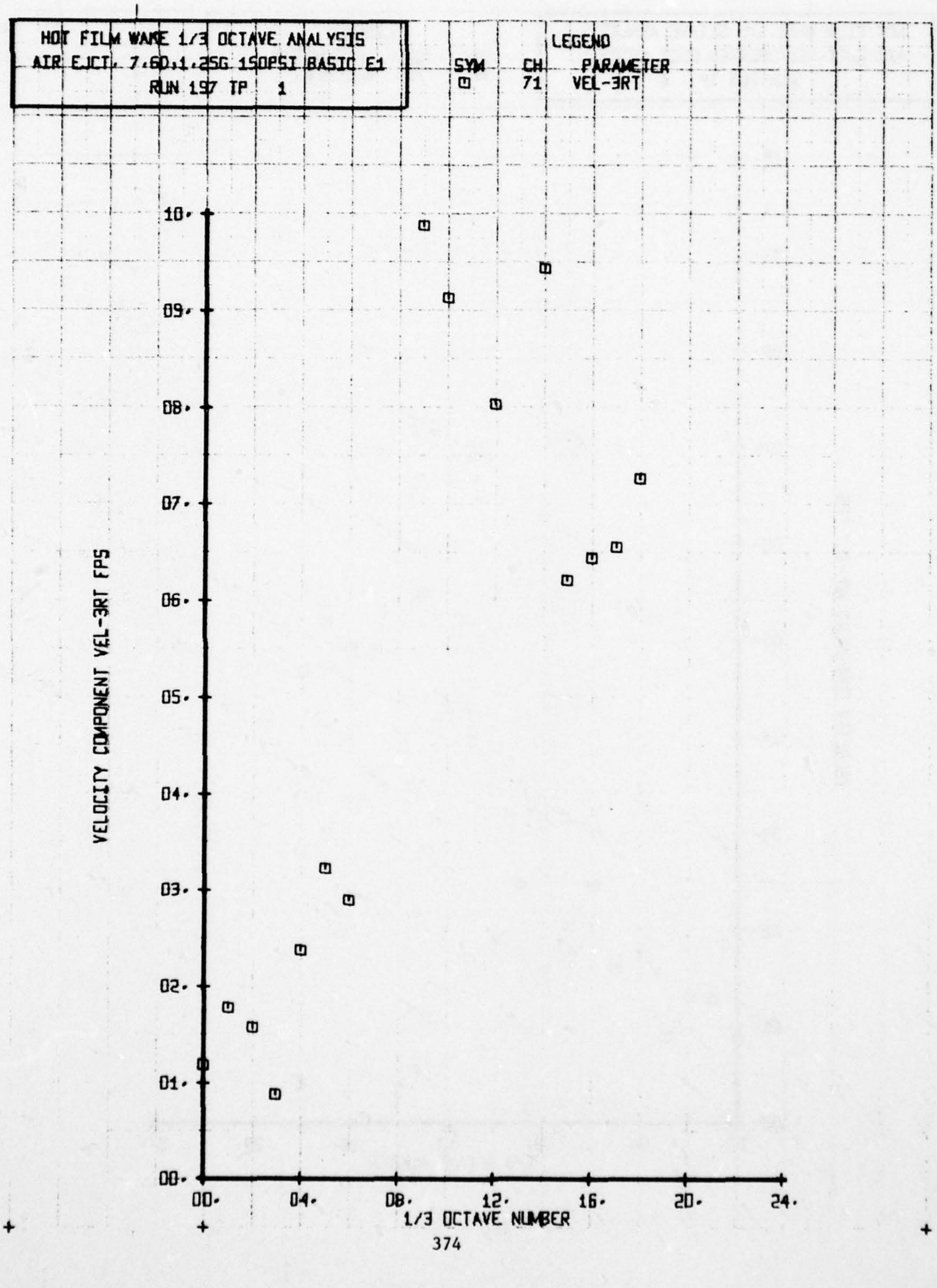
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
AIR EJCT. 7.6D,1.25G 150PSI BASIC E1
RUN 197 TP 1
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
10.
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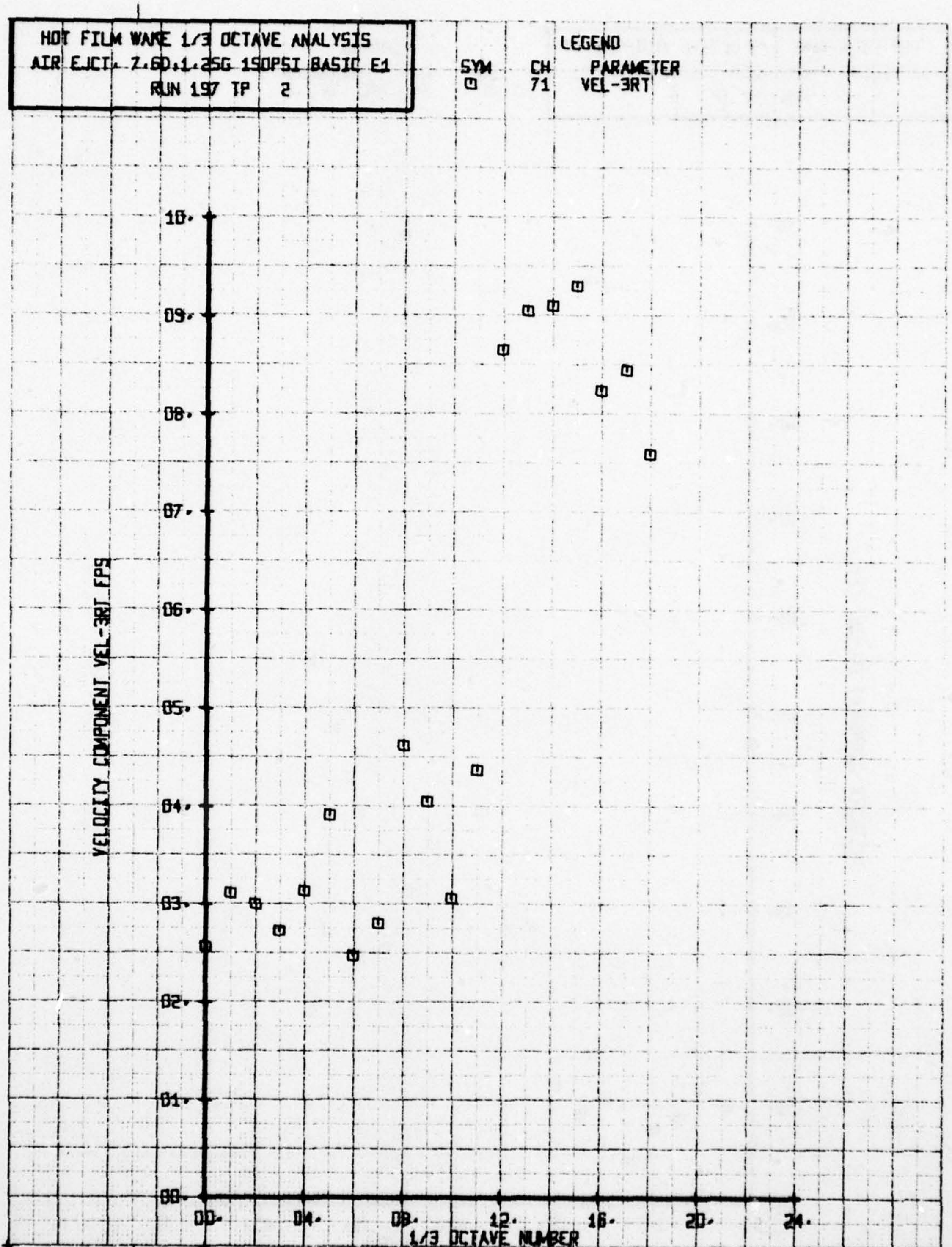
1/3 OCTAVE NUMBER



HOT FILM WAKE 1/3 OCTAVE ANALYSIS
AIR EJCT. 7.6D,1.25G 150PSI BASIC E1
RUN 197 TP 2
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
10.
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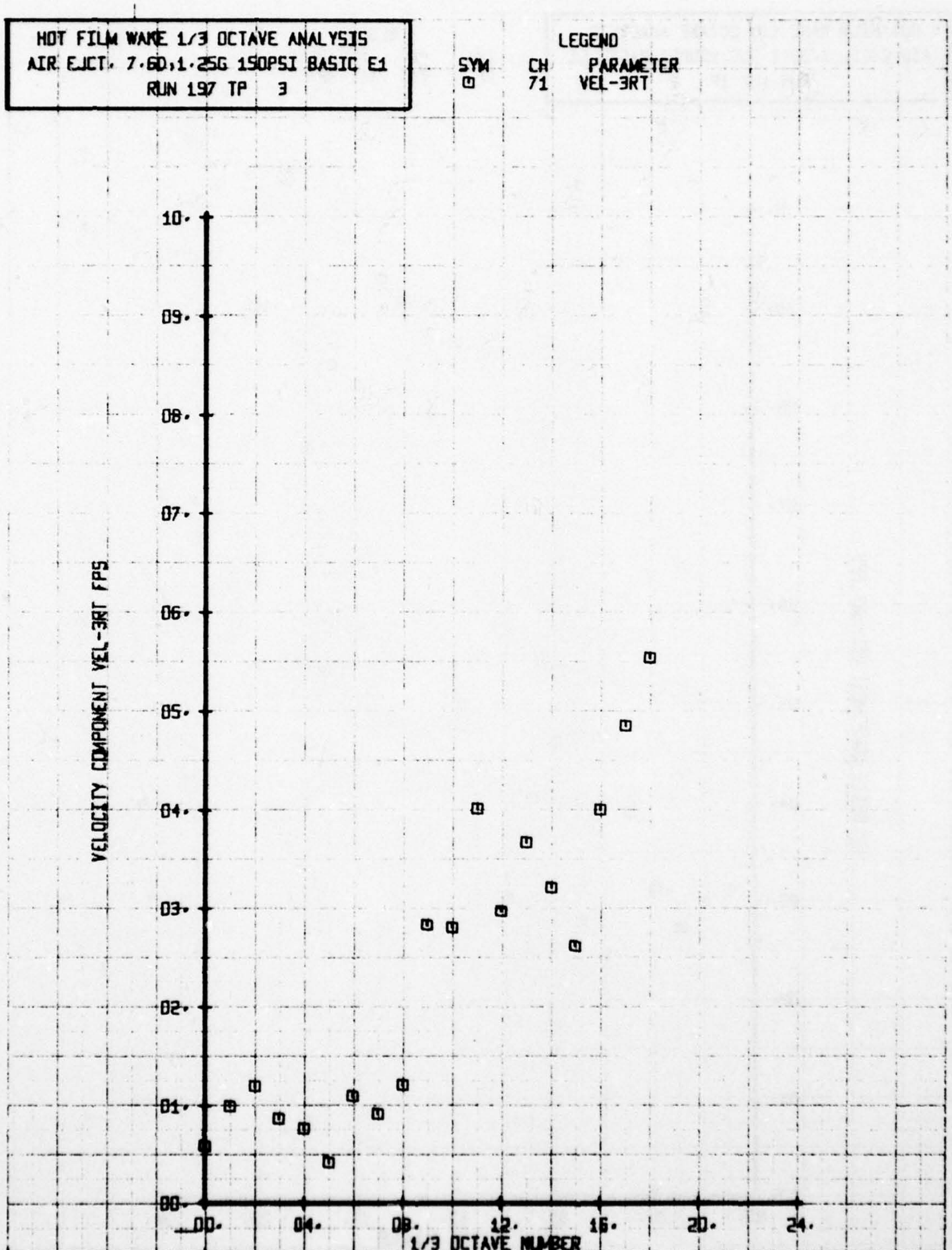
1/3 OCTAVE NUMBER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AIR EJCT. 7.6D,1.25G 150PSI BASIC E1
RUN 197 TP 3
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
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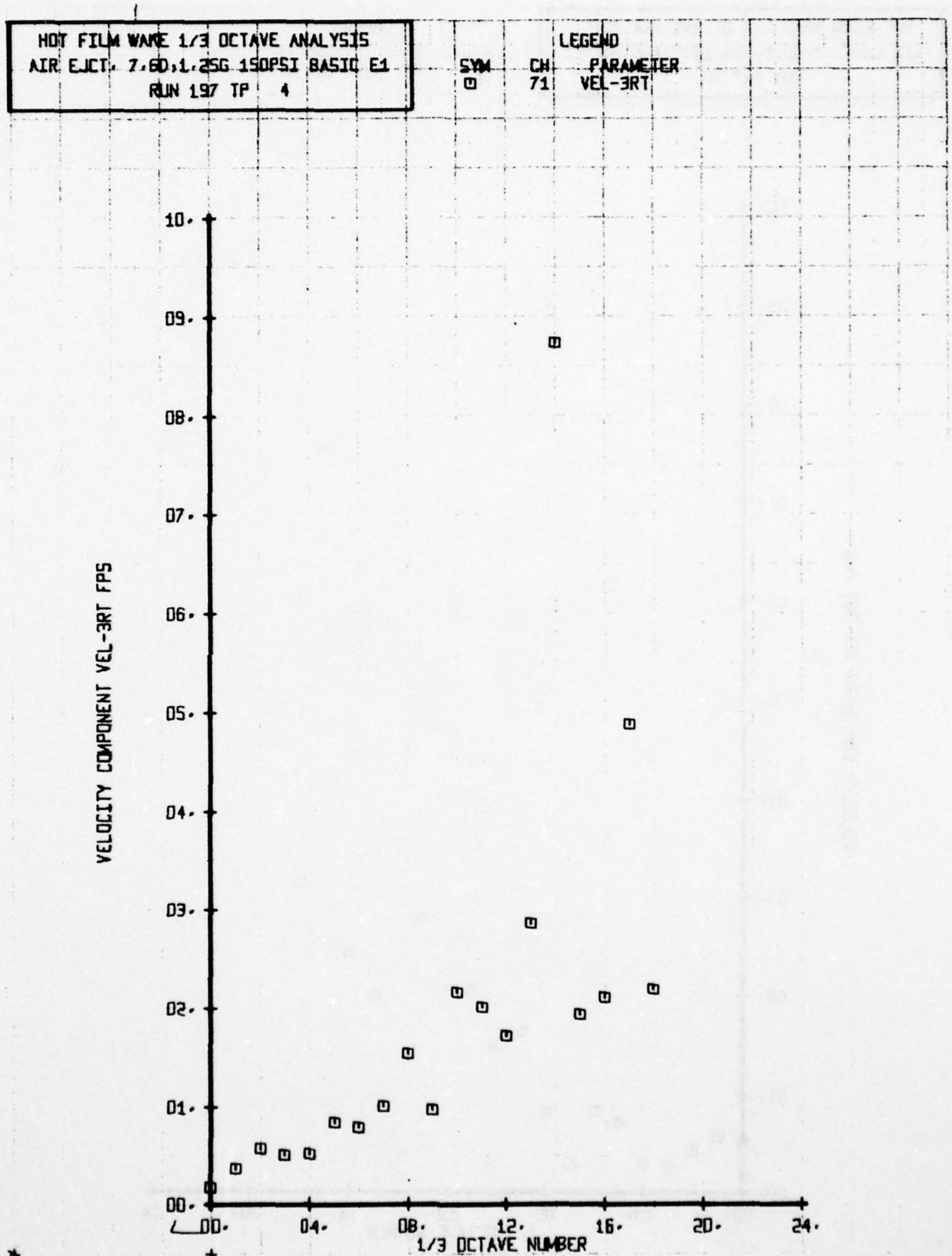
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
AIR EJCT. 7.6D,1.25G 150PSI BASIC E1
RUN 197 TP 4
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
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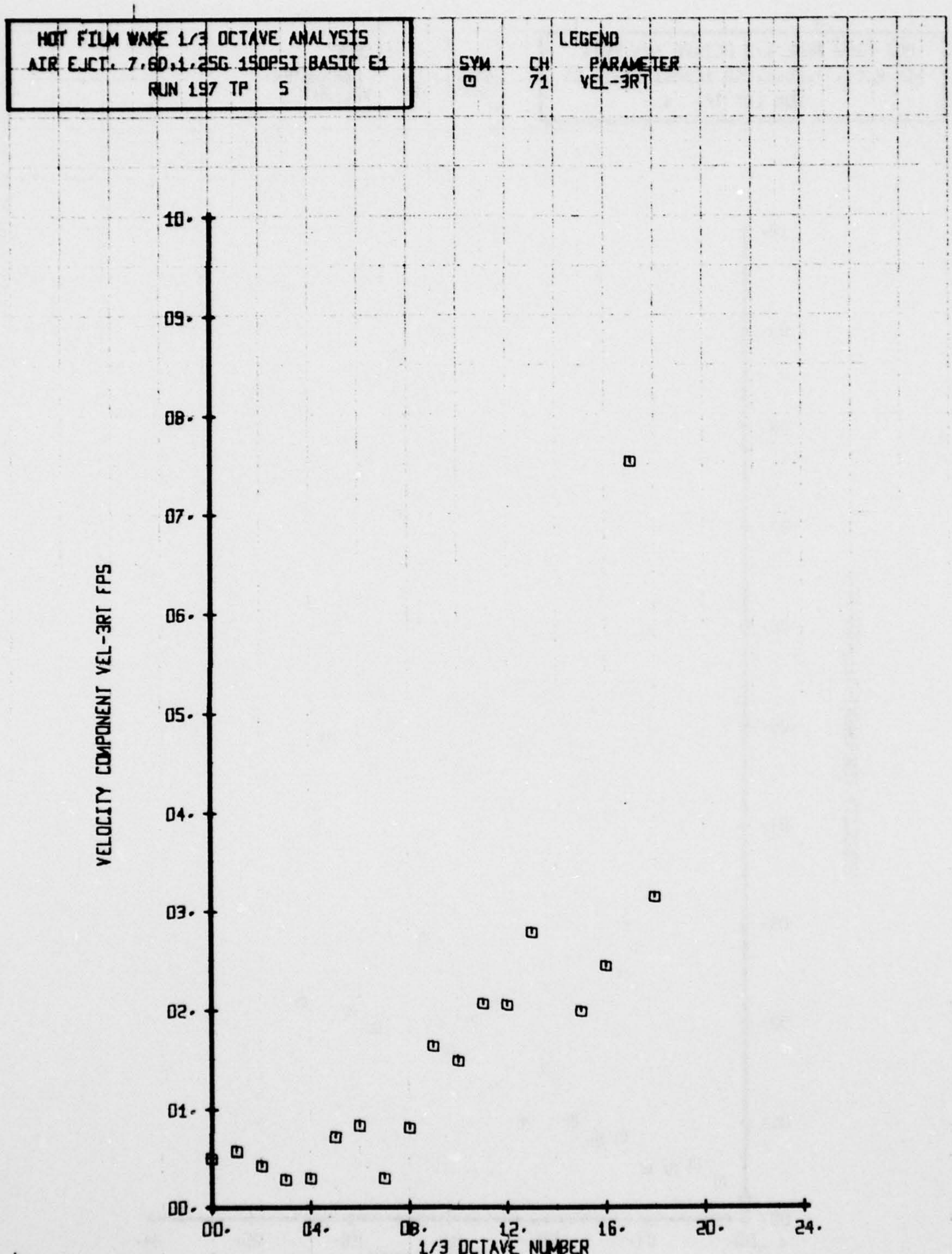
1/3 OCTAVE NUMBER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AIR EJCT. 7.6D.1.25G 150PSI BASIC E1
RUN 197 TP 5
LEGEND
SYM CH PARAMETER
71 VEL-3RT
VELOCITY COMPONENT VEL-3RT FPS
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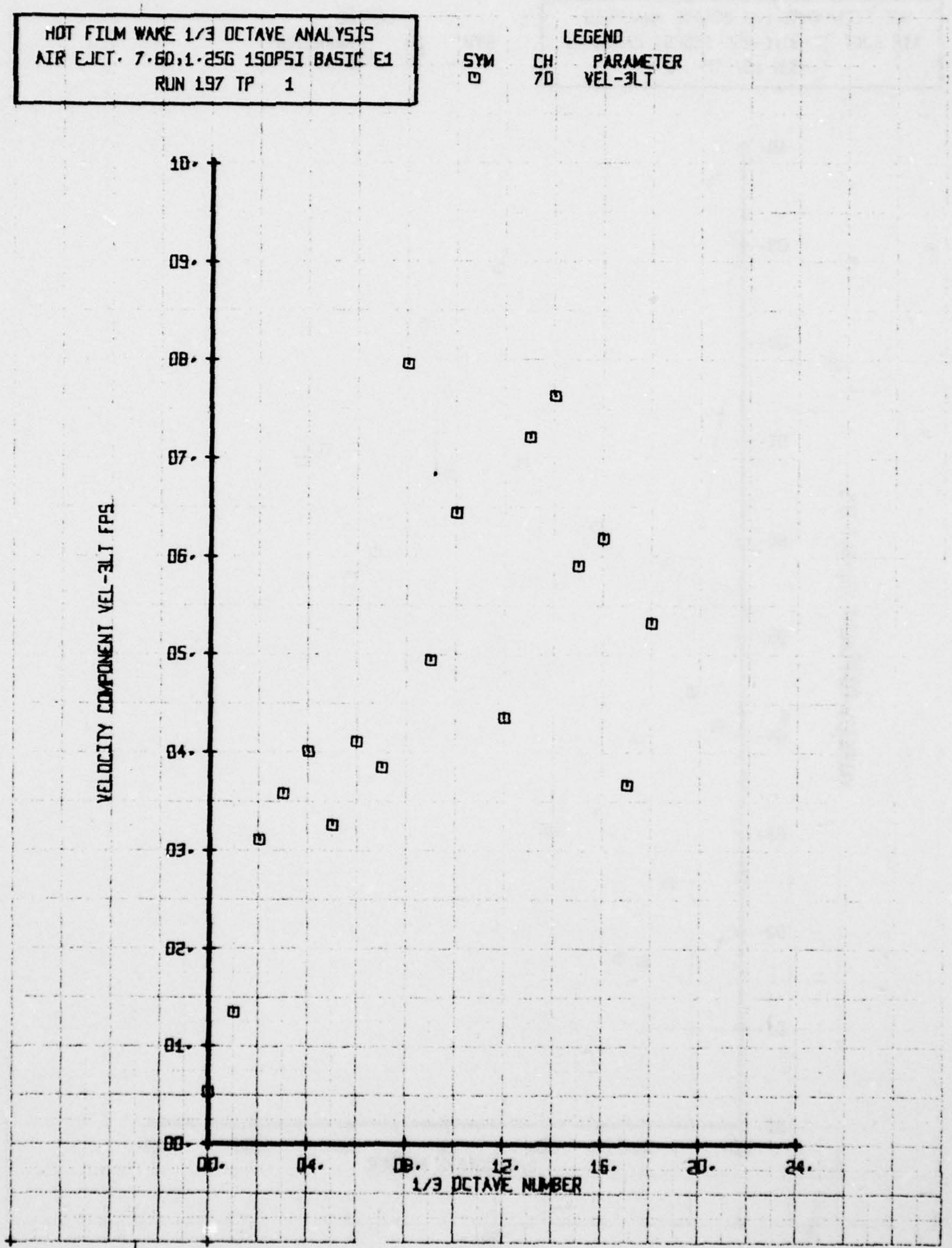
1/3 OCTAVE NUMBER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AIR EJCT. 7.60,1.25G 150PSI BASIC E1
RUN 197 TP 1
LEGEND
SYM CH PARAMETER
70 VEL-3LT
VELOCITY COMPONENT VEL-3LT FPS
1/3 OCTAVE NUMBER
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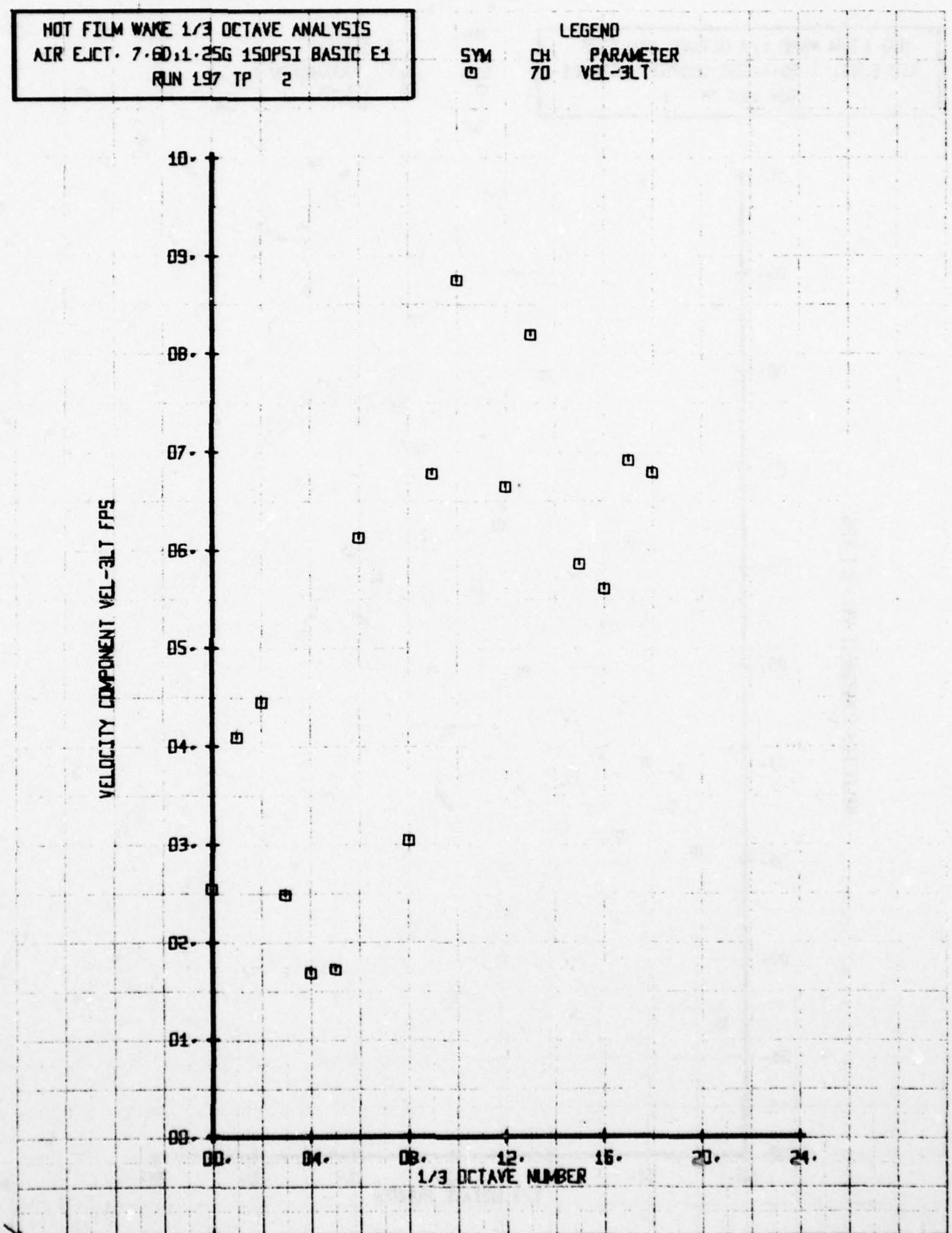
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
AIR EJCT. 7.6D;1.25G 150PSI BASIC E1
RUN 197 TP 2
LEGEND
SYM CH PARAMETER
70 VEL-3LT
VELOCITY COMPONENT VEL-3LT FPS
1/3 OCTAVE NUMBER
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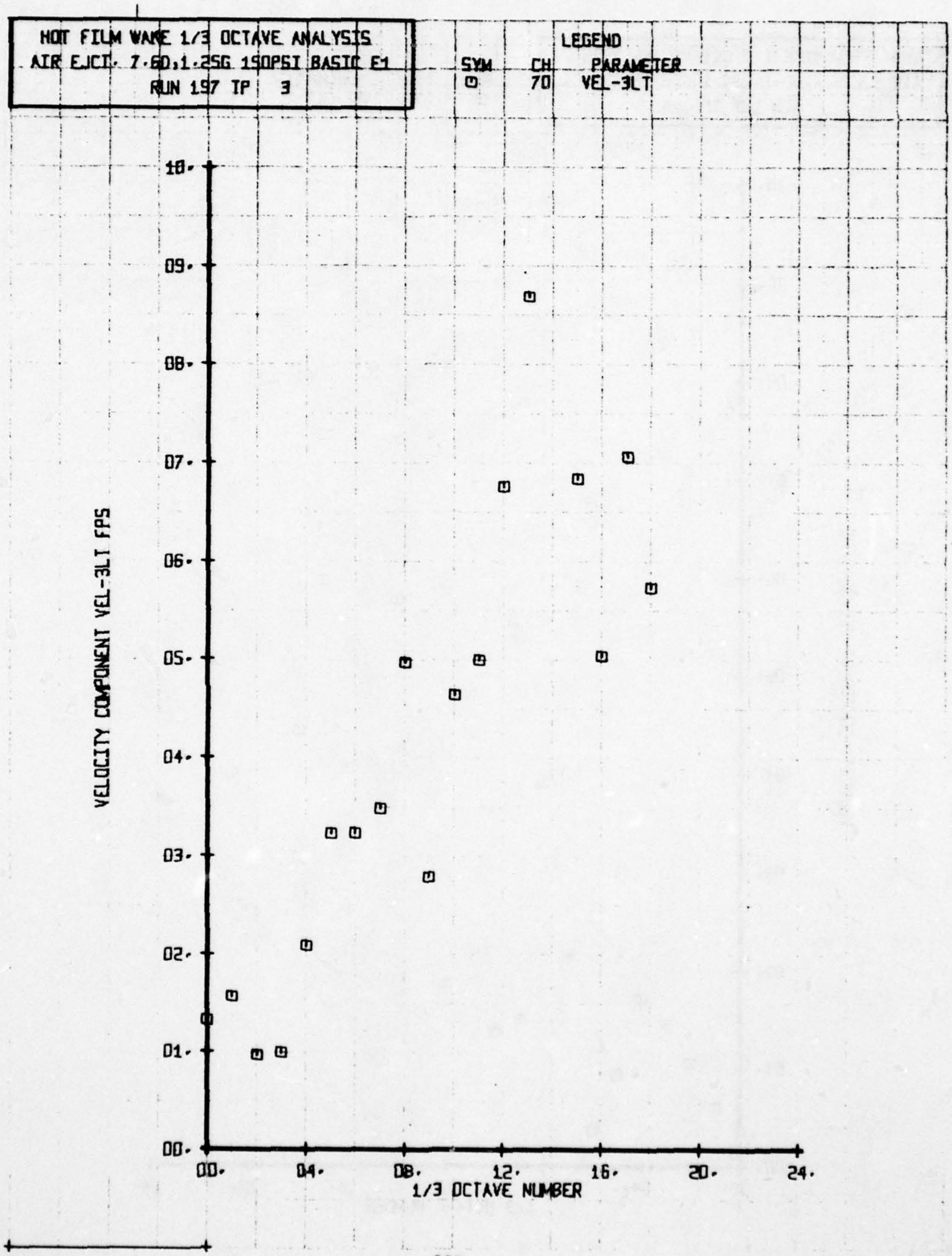
HOT FILM WAKE 1/3 OCTAVE ANALYSIS
AIR EJCT. 7.6D,1.25G 150PSI BASIC E1
RUN 197 TP 3
LEGEND
SYM CH PARAMETER
70 VEL-3LT
VELOCITY COMPONENT VEL-3LT FPS
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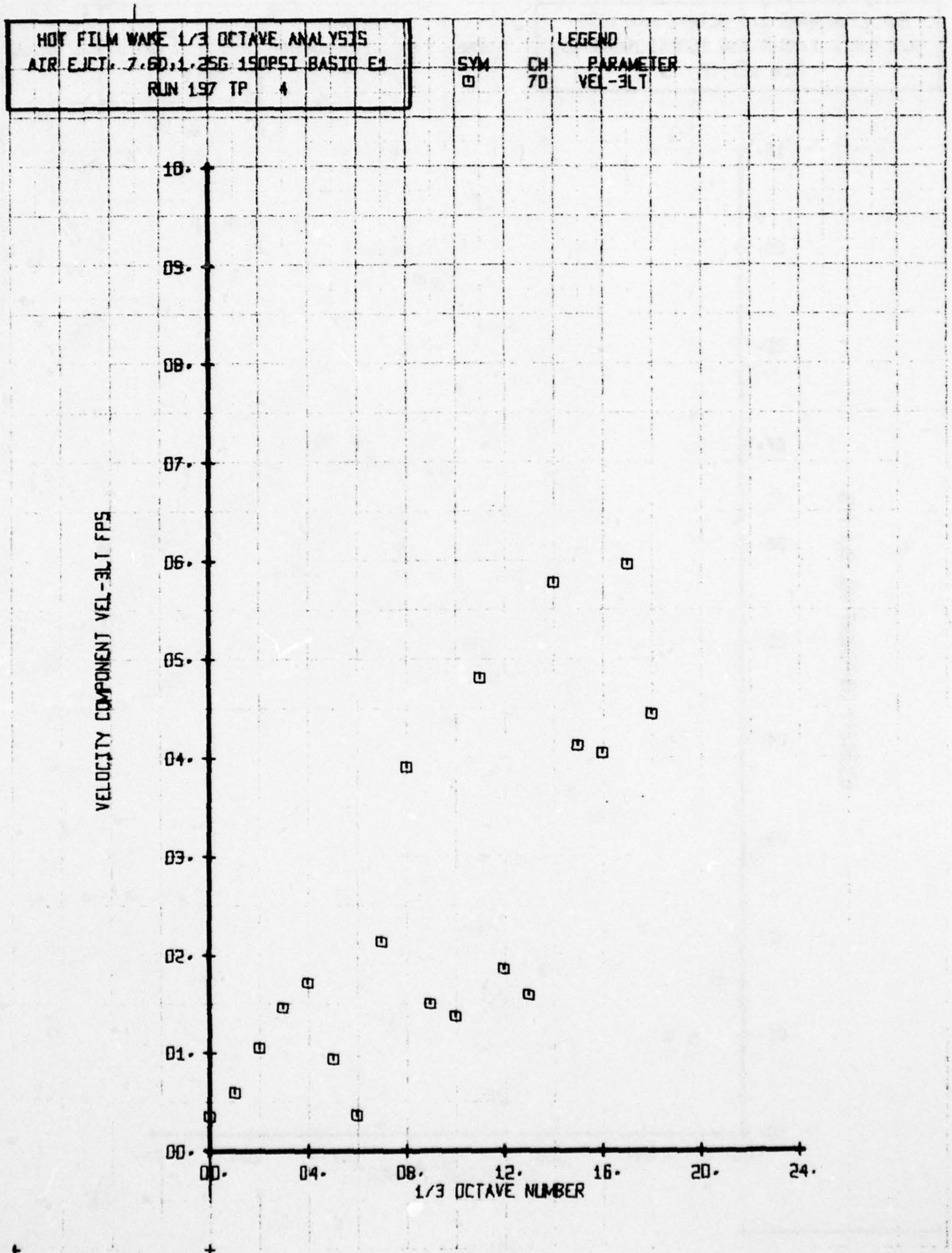
1/3 OCTAVE NUMBER


HOT FILM WAKE 1/3 OCTAVE ANALYSIS
AIR EJCT. 7.6D,1.25G 150PSI BASIC E1
RUN 197 TP 4
LEGEND
SYM CH PARAMETER
70 VEL-3LT
VELOCITY COMPONENT VEL-3LT FPS
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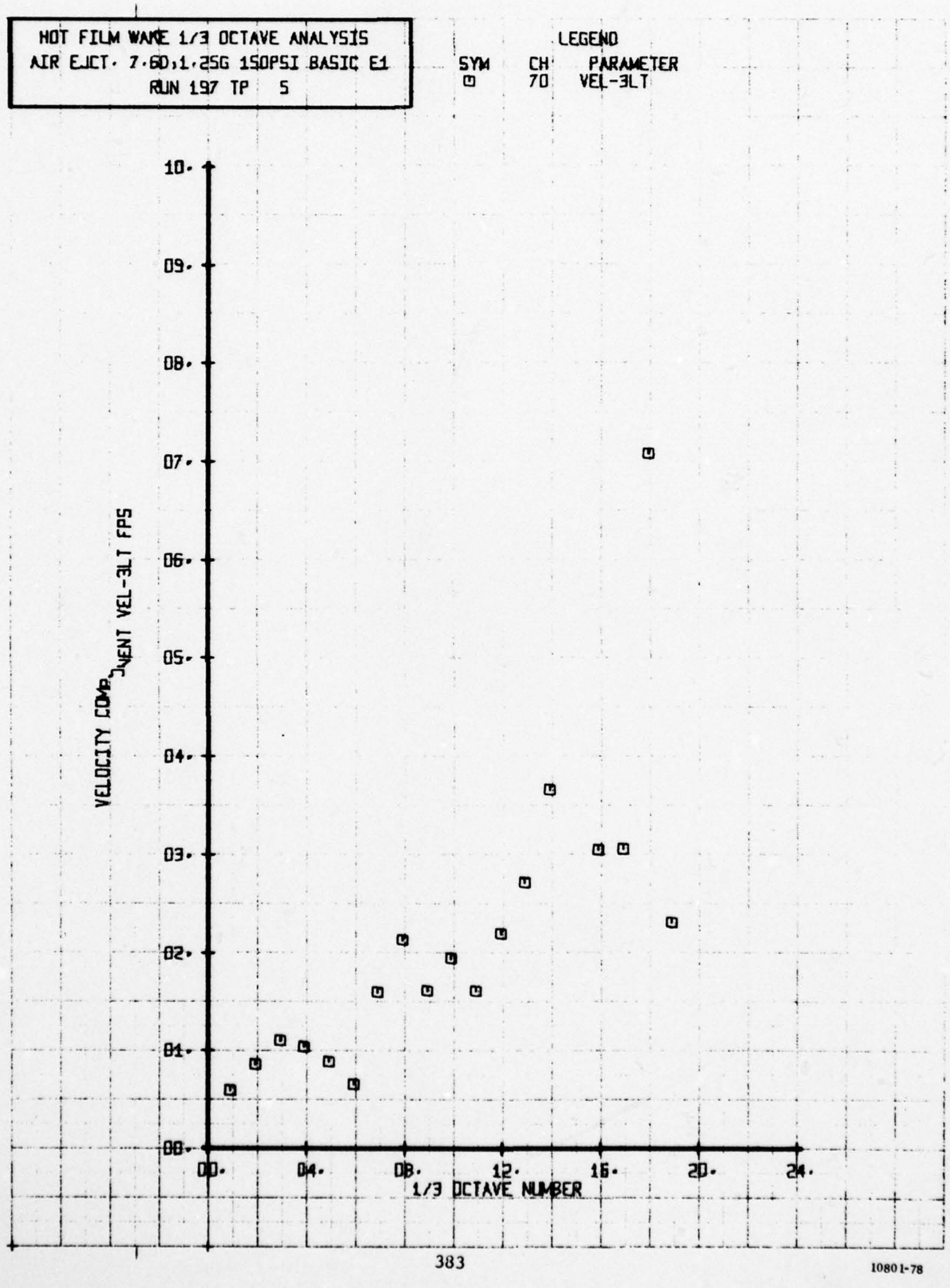
1/3 OCTAVE NUMBER



HOT FILM WAKE 1/3 OCTAVE ANALYSIS
AIR EJCT. 7.6D,1.25G 150PSI BASIC E1
RUN 197 TP 5
LEGEND
SYM CH PARAMETER
70 VEL-3LT
VELOCITY COMPONENT VEL-3LT FPS
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24.
1/3 OCTAVE NUMBER

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